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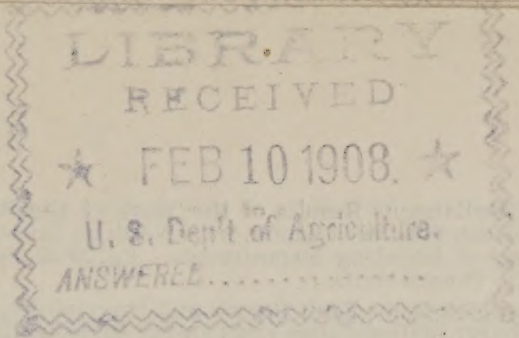
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No. 591.

United States Department of Agriculture,  
DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *January 31, 1908.*

MONTHLY LIST OF PUBLICATIONS.

[DECEMBER, 1907, AND JANUARY, 1908.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted.

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The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

ADVANCE SHEETS, SOIL SURVEY.

- Soil Survey of Riley County, Kansas. By William T. Carter, jr., and Howard C. Smith. Pp. 35, fig. 1, map. (Field Operations, Bureau of Soils, 1906.)
- Soil Survey of Putnam County, Missouri. By Charles J. Mann and W. E. Tharp. Pp. 22, fig. 1, map. (Field Operations, Bureau of Soils, 1906.)
- Soil Survey of Grainger County, Tennessee. By W. E. McLendon and W. S. Lyman. Pp. 30, fig. 1, map. (Field Operations, Bureau of Soils, 1906.)

REPORTS.

NEW.

- Report of the Chief of the Bureau of Animal Industry for 1907. By A. D. Melvin. Pp. 69.
- Report of the Appointment Clerk for 1907. By J. B. Bennett. Pp. 22.
- Report of the Chief of the Bureau of Biological Survey for 1907. By C. Hart Merriam. Pp. 23.
- Report on New Building Operations for 1907. By B. T. Galloway, Chairman, Building Committee. Pp. 7.
- Report of the Chemist for 1907. By H. W. Wiley. Pp. 31.
- Report of the Entomologist for 1907. By L. O. Howard. Pp. 45.
- Report of the Director of the Office of Experiment Stations for 1907. By A. C. True. Pp. 71.
- Report of the Forester for 1907. By Gifford Pinchot. Pp. 40.
- Report of the Librarian for 1907. By Claribel R. Barnett. Pp. 8.
- Report of the Chief of the Bureau of Plant Industry for 1907. By B. T. Galloway. Pp. 93.
- Report of the Director of the Office of Public Roads for 1907. By Logan Waller Page. Pp. 28.
- Report of the Chief of the Bureau of Soils for 1907. By Milton Whitney. Pp. 35.
- Report of the Solicitor for 1907. By Geo. P. McCabe. Pp. 22.
- Report of the Acting Chief of the Bureau of Statistics for 1907. By Charles C. Clark. Pp. 20.

BULLETINS.

NEW.

- The Available Energy of Red Clover Hay. Investigations with the Respiration Calorimeter in cooperation with the Pennsylvania State College Agricultural Experiment Station. By Henry Prentiss Armsby and J. August Fries. Pp. 61, diagrams 4. (Bulletin 101, Bureau of Animal Industry.) Price 10 cents.
- Further Experiments concerning the Production of Immunity from Hog Cholera. By M. Dorset, C. N. McBryde, and W. B. Niles, of the Biochemic Division. Pp. 96. (Bulletin 102, Bureau of Animal Industry.) Price 15 cents.
- Influence of Food Preservatives and Artificial Colors on Digestion and Health. III. Sulphurous Acid and Sulphites. By H. W. Wiley, with the collaboration of W. D. Bigelow, F. C. Weber, and others. Pp. vi, 761-1041, figs. 3. (Bulletin 84, Part III, Bureau of Chemistry.) Price 25 cents.



- Some Miscellaneous Results of the Work of the Bureau of Entomology—IX. An Injurious North American Species of *Apion*, with Notes on Related Forms. By F. H. Chittenden, Entomologist in Charge of Breeding Experiments. Pp. 29–32, fig. 1. (Bulletin 64, Part IV, Bureau of Entomology.) Price 5 cents.
- Papers on Deciduous Fruit Insects and Insecticides. The Lesser Apple Worm. By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations. Pp. 49–60, pl. 1, fig. 1. (Bulletin 68, Part V, Bureau of Entomology.) Price 5 cents.
- Studies of Parasites of the Cotton Boll Weevil. By W. Dwight Pierce, Special Field Agent. Pp. 63, pls. 3, figs. 6. (Bulletin 73, Bureau of Entomology.) Price 10 cents.
- Some Factors in the Natural Control of the Mexican Cotton Boll Weevil. By W. E. Hinds, in Charge of Cotton Boll Weevil Laboratory. Pp. 79, pls. 4, figs. 2. (Bulletin 74, Bureau of Entomology.) Price 15 cents.
- Miscellaneous Papers on Apiculture. Production and Care of Extracted Honey. By E. F. Phillips, in Charge of Apiculture, Bureau of Entomology. Methods of Honey Testing for Bee Keepers. By C. A. Browne, Chief, Sugar Laboratory, Bureau of Chemistry. Pp. 18. (Bulletin 75, Part I, Bureau of Entomology.) Price 5 cents.
- Same.* Wax Moths and American Foul Brood. By E. F. Phillips, in Charge of Apiculture. Pp. 19–22, pls. 3. (Bulletin 75, Part II, Bureau of Entomology.) Price 5 cents.
- Simple Exercises Illustrating Some Applications of Chemistry to Agriculture. By K. L. Hatch, Principal, Winnebago County School of Agriculture and Domestic Economy, Winneconne, Wis. Pp. 22, figs. 5. (Bulletin 195, Office of Experiment Stations.) Price 5 cents.
- Proceedings of the Twenty-first Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at Lansing, Mich., May 28–30, 1907. Edited by A. C. True and W. H. Beal, for the Office of Experiment Stations, and H. C. White, for the Executive Committee of the Association. Pp. 114. (Bulletin 196, Office of Experiment Stations.) Price 15 cents.
- Experiment Station Record, Vol. XIX, No. 4, December, 1907. E. W. Allen, Ph. D., Editor. Pp. x, 301–400. (No single copies of Vol. XIX sold.)  
The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.
- NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume XIX, at \$1.50 per volume, payable in advance.
- Accessions to the Department Library. July–September, 1907. Pp. 56. (Bulletin 65, Library.) Price 10 cents.
- Seeds and Plants Imported during the Period from December, 1905, to July, 1906. Inventory No. 12; Nos. 16797 to 19057. Pp. 125. (Bulletin 105, Bureau of Plant Industry.) Price 15 cents.
- Miscellaneous Papers. I. The Larkspurs as Poisonous Plants. By Albert C. Crawford, Pharmacologist, Poisonous-Plant Investigations. II. The Fibers of Long-staple Upland Cottons. By H. A. Allard, Scientific Assistant, Cotton Breeding Investigations. III. Imported Low-grade Clover and Alfalfa Seed. By Edgar Brown, Botanist in Charge of Seed Laboratory, and Mamie L. Crosby, Assistant, Seed Laboratory. IV. Forage Crops for Hogs in Kansas and Oklahoma. By C. E. Quinn, Scientific Assistant, Farm Management Investigations. V. The Culture and Uses of Brome-grass. By R. A. Oakley, Assistant Agrostologist, Forage Crop Investigations. Pp. 67, pls. 7, figs. 4. (Bulletin 111, Bureau of Plant Industry.) Price 15 cents.
- Forage for Hogs in Kansas and Oklahoma. By C. E. Quinn, Scientific Assistant, Farm Management Investigations. Pp. 24. (Bulletin 111, Part IV, Bureau of Plant Industry.) Price 5 cents.
- The Culture and Uses of Brome Grass. By R. A. Oakley, Assistant Agrostologist, Forage Crop Investigations. Pp. 15, pls. 3. (Bulletin 111, Part V, Bureau of Plant Industry.) Price 5 cents.
- Sap-Rot and Other Diseases of the Red Gum. By Hermann von Schrenk, formerly Expert in Charge of Mississippi Valley Laboratory, Pp. 37, pls. 8. (Bulletin 114, Bureau of Plant Industry.) Price 15 cents.
- The Tuna as Food For Man. By David Griffiths, Assistant Agrostologist, Bureau of Plant Industry, and R. F. Hare, Chemist, New Mexico College of Agriculture and Mechanic Arts. Pp. 73, pls. 6. (Bulletin 116, Bureau of Plant Industry.) Price 25 cents.
- The Reseeding of Depleted Range and Native Pastures. By David Griffiths, Assistant Agriculturist, Bureau of Plant Industry. Pp. 27, pls. 3. (Bulletin 117, Bureau of Plant Industry.) Price 10 cents.
- Peruvian Alfalfa: A New Long-season Variety for the Southwest. By Charles J. Brand, Physiologist in Charge of Clover and Alfalfa Investigations, Bureau of Plant Industry. Pp. 35, pls. 3, figs. 12. (Bulletin 118, Bureau of Plant Industry.) Price 10 cents.
- The Mulberry and Other Silkworm Food Plants. By George W. Oliver, Plant Propagator, Bureau of Plant Industry. Pp. 22, pls. 7. (Bulletin 119, Bureau of Plant Industry.) Price 10 cents.
- The Production of Easter Lily Bulbs in the United States. By George W. Oliver, Plant Propagator, Bureau of Plant Industry. Pp. 24, pls. 4, figs. 3. (Bulletin 120, Bureau of Plant Industry.) Price 10 cents.
- The Supposed Relationship of White Snakeroot to Milk sickness or "Trembles." By Albert C. Crawford, Pharmacologist, Poisonous-Plant Investigations. Pp. 20, pl. 1. (Bulletin 121, Part I, Bureau of Plant Industry.) Price 5 cents.
- Results of Loco-weed Investigations in the Field. By C. Dwight Marsh, Expert, Poisonous-Plant Investigations. Laboratory Work on Loco-weed Investigations. By Albert C. Crawford, Pharmacologist, Poisonous-Plant Investigations. Pp. 37–40. (Bulletin 121, Part III, Bureau of Plant Industry.) Price 10 cents.
- Barley Crops of the United States, 1866–1906. Prepared under the direction of Charles C. Clark, Associate Statistician. Pp. 36. (Bulletin 59, Bureau of Statistics.) Price 10 cents.
- Hay Crops of the United States, 1866–1906. Prepared under the direction of Charles C. Clark, Associate Statistician. Pp. 34. (Bulletin 63, Bureau of Statistics.) Price 10 cents.



## CIRCULARS.

## NEW.

- The Unsuspected but Dangerously Tuberculous Cow. By E. C. Schroeder, Superintendent of Experiment Station. Pp. 19, figs. 7. (Circular 118, Bureau of Animal Industry.)
- Notes on Experiments with Blackhead of Turkeys. By Cooper Curtice, Veterinarian, Rhode Island Experiment Station. Pp. 10. (Circular 119, Bureau of Animal Industry.)
- Some Observations on Rabies. By E. C. Schroeder, Superintendent of Experiment Station. Pp. 16. (Circular 120, Bureau of Animal Industry.)
- The Larger Apple-Tree Borers. By F. H. Chittenden, in Charge of Breeding Experiments. Pp. 11, figs. 3. (Circular 32, third revision, Bureau of Entomology.)
- The True Clothes Moths. (*Tinea pellionella* et al.). By C. L. Marlatt, Entomologist and Acting Chief in absence of Chief. Pp. 8, figs. 3. (Circular 36, Second Series, Revised, Bureau of Entomology.)
- The Catalpa Sphinx (*Ceratonia catalpæ* Bdv.). By L. O. Howard and F. H. Chittenden. Pp. 7, figs. 2. (Circular 96, Bureau of Entomology.)
- The Apple-Tree Tent Caterpillar. (*Malacosoma americana* Fab.). By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations. Pp. 8, figs. 4. (Circular 98, Bureau of Entomology.)
- A Secondary Course in Agronomy. Pp. 43. (Circular 77, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during November, 1907. Pp. 6. (O. E. S. Doc. 1054.)
- List of Publications of the Office of Experiment Stations on the Food and Nutrition of Man. Corrected to December 10, 1907. Pp. 16. (Doc. 1063, Office of Experiment Stations.)
- List of Station Publications received by the Office of Experiment Stations during December, 1907. Pp. 2. (Doc. 1065, Office of Experiment Stations.)
- Work and Publications of Drainage Investigations. Pp. 4. (Doc. 1066, Office of Experiment Stations.)
- How to Transplant Forest Trees. Pp. 4. (Circular 61, revised edition, Forest Service.)
- The Preservative Treatment of Fence Posts. By Howard F. Weiss, Forest Assistant. Pp. 15, fig. 1. (Circular 117, Forest Service.)
- Management of Second Growth in the Southern Appalachians. By Raphael Zon, Chief, Office of Silvics, Forest Service. Pp. 22. (Circular 118, Forest Service.)
- Consumption of Tanbark and Tanning Extract in 1906. Pp. 9. (Circular 119, Forest Service.)
- Consumption of Pulpwood in 1906. Pp. 10. (Circular 120, Forest Service.)
- Wood Used for Distillation in 1906. Pp. 7. (Circular 121, Forest Service.)
- The Lumber Cut of the United States: 1906. Pp. 42. (Circular 122, Forest Service.)
- Production of Tight Coopers Stock in 1906. Pp. 12. (Circular 125, Forest Service.)
- Forest Tables. Lodgepole Pine. Compiled by E. A. Ziegler, Forest Assistant. Pp. 24. (Circular 126, Forest Service.)
- Preservation of Piling against Marine Wood Borers. By C. Stowell Smith, Forest Assistant. Pp. 15, figs. 5. (Circular 128, Forest Service.)
- Forestry in the Public Schools. By Hugo A. Winkenwerder, Forest Assistant. Pp. 20. (Circular 130, Forest Service.)
- Practical Forestry on a Spruce Tract in Maine. By Austin Cary, Collaborator, Forest Service. Pp. 15. (Circular 131, Forest Service.)
- The Seasoning and Preservative Treatment of Hemlock and Tamarack Cross-ties. By W. F. Sherfese, Forest Assistant. Pp. 31, figs. 4. (Circular 132, Forest Service.)
- Production of Veneer in 1906. Pp. 6. (Circular 133, Forest Service.)
- The Estimation of Moisture in Creosoted Wood. By Arthur L. Dean, Expert. Pp. 7, figs. 3. (Circular 134, Forest Service.)
- The Seasoning and Preservative Treatment of Arborvitæ Poles. By C. Stowell Smith, Forest Assistant. Pp. 29, figs. 7. (Circular 136, Forest Service.)
- Consumption of Poles in 1903. Pp. 9. (Circular 137, Forest Service.)
- What Forestry has Done. By Treadwell Cleveland, Jr., Expert. Pp. 31. (Circular 140, Forest Service.)
- Publications for Free Distribution. Revised to December 15, 1907. Pp. 69. (Circular 2, Division of Publications.)
- Farmers' Bulletin Subject Index. Revised to Include Bulletin 309. Pp. 29. (Circular 4, Division of Publications.)
- Monthly List of Publications, November, 1907. Pp. 4. (Doc. 587, Division of Publications.)
- Monthly List of Publications, December, 1907, Foreign. Pp. 4. (Doc. 589, Division of Publications.)
- Crop Reporter, Vol. 9, No. 12, December, 1907. Pp. 89-94. (Bureau of Statistics.)

A two-column quarto publication devoted to agricultural statistics.

NOTE.—For the convenience of those who may desire to receive this publication regularly, the Superintendent of Documents will furnish it at 60 cents per volume (12 numbers), including postage and payable in advance.

Supplement to Crop Reporter, Vol. 9, No. 12, December, 1907. Pp. 95-102. (Bureau of Statistics.)

Crop Reporter, Vol. 10, No. 1, January, 1908. Pp. 1-8. (Bureau of Statistics.)

## FARMERS' BULLETINS.

## NEW.

- A Successful Alabama Diversification Farm. By M. A. Crosby, of the Bureau of Plant Industry, J. F. Duggar, of the Alabama Polytechnic Institute, and W. J. Spillman, of the Bureau of Plant Industry. Pp. 24, figs. 4. (Farmers' Bulletin 310.)

This bulletin contains an account of the operations of a 65-acre hog farm in the "black belt" of Alabama. It demonstrates the value and adaptability of alfalfa to this class of soils and gives the methods of rotation of crops, receipts and expenditures for three years, and the management of hogs.



**Sand-clay and Burnt-clay Roads.** By William L. Spoon, Road Expert, Office of Public Roads. Pp. 22, figs. 5. (Farmers' Bulletin 311.)

Approximate cost and value of sand-clay and burnt-clay roads, with directions for their construction on different subsoils, the physical properties of sand and clay, methods of firing, etc., are clearly set forth.

**Harvesting and Storing Corn.** By C. P. Hartley, Physiologist in Charge of Corn Investigations, Bureau of Plant Industry. Pp. 32, figs. 17. (Farmers' Bulletin 313.)

The different methods of harvesting corn, gathering the fodder, topping, shocking, husking, etc., with directions for their storage and care, are given in plain terms with illustrations showing machinery.

**Progress in Legume Inoculation.** By Karl F. Kellerman, Physiologist in Charge of Soil Bacteriology and Water Purification Investigations, and T. R. Robinson, Assistant Physiologist, Bureau of Plant Industry. Pp. 20. (Farmers' Bulletin 315.)

This Bulletin recommends the use of pure cultures and gives directions for the treatment of seeds and soil. It reports results of field tests and is designed to supersede Farmers' Bulletin 240 on the same subject.

**Experiment Station Work, XLIV.** Pp. 32, figs. 4. (Farmers' Bulletin 316.)

CONTENTS: Distributing manure and fertilizers—Winterkilling of peach buds—Color of apples—Ringing herbaceous plants—Potato scab—Gas injury to trees—The tuna or prickly pear—Cooking cereal foods—Silage making—Horse-feeding tests—Supplements to corn for hogs—Tankage for hogs following cattle—Hoppers for poultry feeding.

#### SEPARATES.

##### BULLETIN 165, OFFICE OF EXPERIMENT STATIONS.

**Form of Organization for Farmers' Institutes.** By John Hamilton, Farmers' Institute Specialist, Office of Experiment Stations. Pp. 78-94. (O. E. S. Doc. 1011.)

##### ANNUAL REPORT, HAWAII AGRICULTURAL EXPERIMENT STATION.

**The Economic Seaweeds of Hawaii and Their Food Value.** By Minnie Reed, Science Teacher, Manual Training Schools, Honolulu, Hawaii. Pp. 61-88, pls. 4. (O. E. S. Doc. 1056.)

##### BULLETIN 196, OFFICE OF EXPERIMENT STATIONS.

**Address by Robert Wallace, Professor of Agriculture and Rural Economy, University of Edinburgh.** Pp. 42-47. (O. E. S. Doc. 1060.)

**Development of Agricultural Education.** By Elmer Ellsworth Brown, United States Commissioner of Education. Pp. 49-54. (O. E. S. Doc. 1061.)

**The Development of Engineering Education in the Land-grant Colleges.** By W. E. Stone, President of Purdue University, La Fayette, Ind. Pp. 55-60. (O. E. S. Doc. 1062.)

##### PUBLICATIONS OF THE WEATHER BUREAU.

**Report of the Chief of the Weather Bureau, 1905-1906.** By Willis L. Moore, Chief, United States Weather Bureau. Pp. xx, 405. Price 80 cents.

**Monthly Weather Review, Vol. XXXV, No. 9, September, 1907.** Prepared under the direction of Willis L. Moore, Chief, United States Weather Bureau. Pp. 389-436, figs. 12, charts 6. (W. B. No. 380.) Price, 20 cents; \$2.50 per year.

**Monthly Weather Review, Vol. XXXV, No. 10, October, 1907.** Prepared under the direction of Willis L. Moore, Chief, United States Weather Bureau. Pp. 437-502, figs. 11, charts 7. (W. B. No. 382.) Price, 20 cents; \$2.50 per year.

**National Monthly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States.** No. 31.

**Snow and Ice Bulletins for Tuesdays, December 3, 10, 17, 24, and for January 2, 14, 21, and 28.** These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers.

JOS. A. ARNOLD,  
*Acting Editor in Chief.*

Approved:  
JAMES WILSON,  
*Secretary of Agriculture.*



No. 800.

# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *March 31, 1908.*

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[FEBRUARY-MARCH, 1908.]

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#### ADVANCE SHEETS, SOIL SURVEY, 1906.

- Soil Survey of Lancaster County, Nebraska. By James L. Burgess and E. L. Worthen. Pp. 24, fig. 1, map.
- Soil Survey of Merrimack County, New Hampshire. By Charles H. Mooney, H. L. Westover, and Frank Bennett. Pp. 39, fig. 1, map.
- Soil Survey of Niagara County, New York. By Elmer O. Fippin, Grove B. Jones, W. J. Geib, Orla L. Ayrs, and C. W. Mann. Pp. 53, fig. 1, map.
- Soil Survey of the Williston Area, North Dakota. By Thomas D. Rice, assisted by R. E. Willard and J. T. Weaver. Pp. 28, fig. 1, map.
- Soil Survey of Meigs County, Ohio. By F. N. Meeker and G. W. Tailby, jr. Pp. 32, fig. 1, map.
- Soil Survey of Laredo Area, Texas. By A. W. Mangum and Ora Lee, jr. Pp. 28, fig. 1, map.
- Soil Survey of Chesterfield County, Virginia. By Frank Bennett, R. A. Winston, W. J. Geib, and C. W. Mann. Pp. 32, fig. 1, map.

#### REPORTS.

##### NEW.

- Report of the Secretary of Agriculture on the Southern Appalachian and White Mountain Watersheds; commercial importance, area, condition, advisability of their purchase for National forests, and probable cost. Pp. 39, maps 2. (Senate Document 91.) Price 10 cents.
- Report of the Secretary of Agriculture. 1907. Pp. 100. (Report 85, Office of the Secretary.) Price 10 cents.
- Twenty-third Annual Report of the Bureau of Animal Industry for the Year 1906. By A. D. Melvin, Chief of Bureau. Pp. 478, pls. 24, figs. 35. Price, cloth, 60 cents.
- Report of the Chief of the Division of Accounts and Disbursements for 1907. By A. Zappone. Pp. 38.
- Report of the Editor for 1907. By Jos. A. Arnold. Pp. 91.

#### BULLETINS.

##### NEW.

- Experiments in Meat Production in Alabama. By J. F. Duggar, Director, Alabama Agricultural Experiment Station, and W. F. Ward Scientific Assistant. Pp. 28, pls. 11. (Bulletin 103, Bureau of Animal Industry.) Price 10 cents.
- Food Habits of the Grosbeaks. By W. L. McAtee, Assistant, Biological Survey. Pp. 92, pls. 4, figs. 40. (Bulletin 32, Bureau of Biological Survey.) Price 25 cents.



Chemical Analysis and Composition of American Honeys, by C. A. Browne, Chief of Sugar Laboratory, including a Microscopical Study of Honey Pollen, by W. J. Young, Assistant, Microchemical Laboratory. Pp. 93, pls. 6, fig. 1. (Bulletin 110, Bureau of Chemistry.) Price 30 cents.

The Fermenting Power of Pure Yeasts and Some Associated Fungi. By Wm. B. Alwood, in Charge, Enological-Chemical Investigations. Pp. 28, figs. 4. (Bulletin 111, Bureau of Chemistry.) Price 5 cents.

Organization Lists of the Agricultural Colleges and Experiment Stations in the United States. Pp. 108. (Bulletin 197, Office of Experiment Stations.) Price 15 cents.

Experiment Station Record, Vol. XIX, No. 5, January, 1908. E. W. Allen, Ph. D., Editor. Pp. ix, 401-500. (No single copies of Vol. XIX sold.)

Same, Vol. XIX, No. 6, February, 1908. Pp. ix, 501-600.

Same, Vol. XIX, No. 7, March, 1908. Pp. viii, 601-700.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume XIX, at \$1.50 per volume, payable in advance.

Forest Products of the United States: 1906. Pp. 99. (Bulletin 77, Forest Service.) Price 15 cents.

Accessions to the Department Library, October-December, 1907. Pp. 63. (Bulletin 66, Library.) Price 10 cents.

Mountain Laurel, a Poisonous Plant. By Albert C. Crawford, Pharmacologist, Poisonous-Plant Investigation. Pp. 21-35, pl. 1. (Bulletin 121, Part II, Bureau of Plant Industry.) Price 5 cents.

The Sources of Arsenic in Certain Samples of Dried Hops. By W. W. Stockberger, Expert, Drug-Plant Investigation. Pp. 41-46. (Bulletin 121, Part IV, Bureau of Plant Industry.) Price 5 cents.

Apple Leaf-spot Caused by Sphaeropsis Malorum. By W. M. Scott, Pathologist, and James B. Rorer, Assistant Pathologist, Investigations of Diseases of Fruits. Pp. 47-54, pls. 2. (Bulletin 121, Part V, Bureau of Plant Industry.) Price 5 cents.

The Immunity of the Japanese Chestnut to the Bark Disease. By Haven Metcalf, Pathologist in Charge of the Laboratory of Forest Pathology. Pp. 4. (Bulletin 121, Part VI, Bureau of Plant Industry.) Price 5 cents.

The Prickly Pear as a Farm Crop. By David Griffiths, Assistant Agriculturist, Farm-Management Investigation. Pp. 37, pls. 2. (Bulletin 124, Bureau of Plant Industry.) Price 10 cents.

The Germination of Vegetable Seeds. By Edgar Brown, Botanist in Charge of Seed Laboratory, and Willard L. Goss, Assistant, Seed Laboratory. Pp. 1-10. (Bulletin 131, Part I, Bureau of Plant Industry.) Price 5 cents.

The Botanical History and Classification of Alfalfa. By Carl S. Scofield, Agriculturist in Charge of Western Agricultural Extension Investigations. Pp. 11-19, figs. 2. (Bulletin 131, Part II, Bureau of Plant Industry.) Price 5 cents.

The Cross-inoculation of Fruit Trees and Shrubs with Crown-gall. By George G. Hedgcock, Scientific Assistant, Investigations of Diseases of Fruits. Pp. 21-23. (Bulletin 131, Part III, Bureau of Plant Industry.) Price 5 cents.

Fertility of Soils as Affected by Manures. By Frank D. Gardner. Pp. 59, figs. 5. (Bulletin 48, Bureau of Soils.) Price 10 cents.

Moisture Content and Physical Condition of Soils. By Frank K. Cameron and Francis E. Gallagher. Pp. 70, figs. 33. (Bulletin 50, Bureau of Soils.) Price 15 cents.

Russia's Wheat Trade. By I. M. Rubinow. Pp. 77, pls. 2. (Bulletin 65, Bureau of Statistics.) Price 15 cents.

Cereal Production of Europe. By Frank R. Rutter, Editorial Assistant. Pp. 100. (Bulletin 68, Bureau of Statistics.) Price 5 cents.

European Grain Trade. By Frank R. Rutter, Editorial Assistant. Pp. 63. (Bulletin 69, Bureau of Statistics.) Price 10 cents.

## CIRCULARS.

### NEW.

Original Packages: Interpretation of Regulation 2 of Rules and Regulations for the Enforcement of the Food and Drugs Act. Pp. 16. (Food Inspection Decision 86, Office of the Secretary.)

Private Importations. Pp. 2. (Food Inspection Decision 88, Office of the Secretary.)

The use of Benzoate of Soda and Sulphur Dioxid in Foods. Amendment to F. I. D. 76. P. 1. (Food Inspection Decision 89, Office of the Secretary.)

Directions for the Use of Blackleg Vaccine. By Victor A. Nørgaard. Pp. 9, figs. 3. (Circular 23, third revision, Spanish edition, Bureau of Animal Industry.)

Epizootic Cerebro-spinal Meningitis of Horses. By R. W. Hickman, Chief of the Quarantine Division. Pp. 8. (Circular 122, Bureau of Animal Industry.)

Instructions for Preparing and Shipping Pathological Specimens for Diagnosis. By George H. Hart, Assistant in Pathology and Bacteriology, Pathological Division. Pp. 10. (Circular 123, Bureau of Animal Industry.)



- Suggestions for Horse and Mule Raising in the South. By George M. Rommel, Animal Husbandman, Bureau of Animal Industry. Pp. 15. (Circular 124, Bureau of Animal Industry.)
- The Federal Meat-Inspection Service. By A. D. Melvin, Chief, Bureau of Animal Industry. Pp. 40, pls. 15, fig. 1. (Circular 125, Bureau of Animal Industry.)
- A Simple Method of Keeping Creamery Records. By B. D. White, Assistant Dairyman in Charge of Creamery Investigations, Dairy Division. Pp. 12. (Circular 126, Bureau of Animal Industry.)
- White Diarrhea of Chicks. With Notes on Coccidiosis in Birds. By Geo. Byron Morse, Assistant in Bacteriology and Pathology, Pathological Division. Pp. 7. (Circular 128, Bureau of Animal Industry.)
- Designs for Dairy Buildings. By Ed. H. Webster, Chief of the Dairy Division. Pp. 26, figs. 32. (Circular 131, Bureau of Animal Industry.)
- Regulations to Prevent the Spread of Splenetic Fever of Cattle. Pp. 7. (Amendment 3, to Order 143, Bureau of Animal Industry.)
- Regulations concerning the Meat Inspection of the United States Department of Agriculture. Pp. 48. (Order 150, Bureau of Animal Industry.)
- To Prevent the Spread of Splenetic Fever in Cattle. Pp. 10. (Order 151, Bureau of Animal Industry.)
- Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1907. Pp. 14. (Circular 38, Bureau of Chemistry.)
- The Bedbug. (*Cimex lectularius*.) By C. L. Marlatt, Entomologist and Acting Chief in Absence of Chief. Pp. 8, figs. 3. (Circular 47, revised, Bureau of Entomology.)
- The White Ant. (*Termes flavipes* Koll.) By C. L. Marlatt, Entomologist and Acting Chief in Absence of Chief. Pp. 8, figs. 4. (Circular 50, second series, revised edition, Bureau of Entomology.)
- The Bagworm. (*Thyridopteryx ephemeraeformis* Haw.) By L. O. Howard and F. H. Chittenden. Pp. 10, figs. 11. (Circular 97, Bureau of Entomology.)
- The Nut Weevils. By F. H. Chittenden, Entomologist in Charge of Breeding Experiments. Pp. 15. (Circular 99, Bureau of Entomology.)
- A Secondary Course in Agronomy. Pp. 44. (Circular 77, revised, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during January, 1908. Pp. 5. (Doc. 1073, Office of Experiment Stations.)
- List of Publications of the Office of Experiment Stations on Agricultural Education, corrected to February 15, 1908. Pp. 12. (Doc. 1076, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during February, 1908. Pp. 5. (Doc. 1080, Office of Experiment Stations.)
- Experiments on the Strength of Treated Timber. By W. Kendrick Hatt, Civil Engineer, Forest Service. Pp. 31, figs. 2. (Circular 39, second edition, Forest Service.)
- The Analysis and Grading of Creosotes. By Arthur L. Dean and Ernest Bateman, Experts. Pp. 44, figs. 28. (Circular 112, Forest Service.)
- Forest Tables—Western Yellow Pine. Compiled by E. A. Ziegler, Chief, Section of Computing. Pp. 23. (Circular 127, Forest Service.)
- Suggestions to Woodlot Owners in the Ohio Valley Region. By Samuel J. Record, Forest Assistant. Pp. 15. (Circular 138, Forest Service.)
- A Primer of Wood Preservation. By W. F. Sherfese, Forest Assistant. Pp. 15. (Circular 139, Forest Service.)
- Wood Paving in the United States. By C. L. Hill, Forest Assistant. Pp. 24, figs. 3. (Circular 141, Forest Service.)
- Tests of Vehicle and Implement Woods. By H. B. Holroyd, Forest Assistant, and H. S. Betts, Engineer in Timber Tests. Pp. 29, figs. 15. (Circular 142, Forest Service.)
- The Relation of the Southern Appalachian Mountains to Inland Water Navigation. By M. O. Leighton and A. H. Horton, U. S. Geological Survey. Pp. 38. (Circular 143, Forest Service.)
- The Relation of the Southern Appalachian Mountains to the Development of Water Power. By M. O. Leighton, M. R. Hall, and R. H. Bolster, U. S. Geological Survey. Pp. 54. (Circular 144, Forest Service.)
- Forest Planting on the Northern Prairies. By James M. Fetherolf, Inspector. Pp. 28, fig. 1. (Circular 145, Forest Service.)
- Food and Drugs Index. Pp. 12. (Circular 5, Division of Publications.)
- Monthly List of Publications, December, 1907, and January, 1908. Pp. 4. (Doc. 591, Division of Publications.)
- Monthly List of Publications, February, 1908, Foreign. Pp. 4. (Doc. 595, Division of Publications.)
- Negligence of Employee Imputable to Carrier. Pp. 5. (Circular 1, Office of the Solicitor.)
- Unit of Violation under "The Twenty-eight-hour law." Pp. 6. (Circular 2, Office of the Solicitor.)
- Crop Reporter, Vol. 10, No. 2, February, 1908. Pp. 9-16. (Bureau of Statistics.)
- Same, Vol. 10, No. 3, March, 1908. Pp. 17-24. (Bureau of Statistics.)

The Reporter is a two-column quarto publication devoted to agricultural statistics.



## FARMERS' BULLETINS.

NEW.

Notes on Frost. By E. B. Garriott, Professor of Meteorology, Weather Bureau. Pp. 31. (Farmers' Bulletin 104, Revised.)

This bulletin contains information in regard to the formation and seasons of frost, the dates of early and late frosts at Weather Bureau stations throughout the United States, description of methods for protection, devices for charging the air with moisture, etc., with an account of the experiments and results in a number of States, and the frost seasons for several crops.

A Method of Breeding Early Cotton to Escape Boll-weevil Damage. By B. L. Bennett, Special Agent of the Bureau of Plant Industry, Collaborating with the Texas Agricultural Experiment Station. Pp. 30, figs. 16. (Farmers' Bulletin 314.)

A description of the distinguishing characteristics of early cotton, instruction for seed selection, crossing one plant with another, treatment to insure a stand, experiments, etc.

Experiment Station Work XLV. Pp. 32, figs. 6. (Farmers' Bulletin 317.)

CONTENTS: The farm home—Lining of ditches and reservoirs—Cement pipe for irrigation and other purposes—Pollination of forced tomatoes—Increasing the productiveness of corn—Shrinkage of corn in cribs—Grain for cows at pasture—Starters for ripening cream—Water pans for poultry—Catching hook for poultry.

## SEPARATES.

NEW.

The Danish Hog Industry. By Andrew Fossum, of the Editorial Office, Bureau of Animal Industry. Pp. 24. (Reprint from Annual Report, Bureau of Animal Industry, 1906.)

Investigations in Animal Nutrition. By Henry Prentiss Armsby, Expert in Animal Nutrition, Bureau of Animal Industry. Pp. 23, pls. 3, figs. 2. (Reprint from Annual Report, Bureau of Animal Industry, 1906.)

## PUBLICATIONS OF THE WEATHER BUREAU.

Monthly Weather Review, Vol. XXXV, No. 11, November, 1907. Prepared under the direction of Willis L. Moore, Chief, United States Weather Bureau. Pp. 437-555, figs. 11, charts 7. (W. B. No. 382.) Price 20 cents; \$2.50 per year.

Monthly Weather Review, Vol. XXXV, No. 12, December, 1907. Prepared under the direction of Willis L. Moore, Chief, United States Weather Bureau. Pp. 557-606, pls. 4, figs. 5, charts 8. (W. B. No. 384.) Price 20 cents; \$2.50 per year.

National Monthly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. No. 1, January, 1908; No. 2, February, 1908.

Snow and Ice Bulletins for February 4, 11, 18, and 25, and for March 3, 10, 17, 24, and 31. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers.

JOS. A. ARNOLD,  
*Acting Editor and Chief.*

Approved:  
JAMES WILSON,  
*Secretary of Agriculture.*



No. 605.

# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., May 29, 1908.

### MONTHLY LIST OF PUBLICATIONS.

[APRIL-MAY, 1908.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted.

**THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.**

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

#### REPORTS.

##### NEW.

Annual Reports of the Department of Agriculture for the Year Ended June 30, 1907, Pp. 811. (Report of the Secretary. Departmental Reports.)

Annual Report of the Hawaii Agricultural Experiment Station for 1907. Jared G. Smith, Special Agent in Charge. Pp. 90, pls. 9, figs. 3.

Annual Report of the Porto Rico Agricultural Experiment Station for 1907. D. W. May, Special Agent in Charge. Pp. 55, pls. 3, figs. 2.

#### BULLETINS.

##### NEW.

Medical Milk Commissions and the Production of Certified Milk in the United States. By Clarence B. Lane, Assistant Chief of the Dairy Division. Pp. 43, pls. 6, figs. 11. (Bulletin 104, Bureau of Animal Industry.) Price 10 cents.

Experiments on the Digestibility of the Prickly Pear by Cattle. By R. F. Hare, Professor of Chemistry in the College of Agriculture and Mechanic Arts of New Mexico. Pp. 38, pl. 1, fig. 1. (Bulletin 106, Bureau of Animal Industry.) Price 10 cents.

Commercial Feeding Stuffs of the United States: Their Chemical and Microscopical Examination. By J. K. Haywood, Chief, Miscellaneous Laboratory, and H. J. Warner, Assistant Chemist, Miscellaneous Laboratory, with the collaboration of B. J. Howard, Chief, Microchemical Laboratory. Pp. 94, plates 6. (Bulletin 108, Bureau of Chemistry.) Price 25 cents.

Some Technical Methods of Testing Miscellaneous Supplies, Including Paints and Paint Materials, Inks, Lubricating Oils, Soaps, etc. By Percy H. Walker, Chief, Contracts Laboratory. Pp. 48. (Bulletin 109, Bureau of Chemistry.) Price 10 cents.

Food Legislation during the Year Ended June 30, 1907. I. Federal Laws and Laws of States and Territories, Alabama to New Hampshire, Inclusive. By W. D. Bigelow, Chief, Division of Foods. Pp. 155. (Bulletin 112, Part I, Bureau of Chemistry.) Price 20 cents.

Food Legislation during the Year Ended June 30, 1907. II. Laws of States and Territories, New Jersey to Wyoming, Inclusive. By W. D. Bigelow, Chief, Division of Foods. Pp. 155. (Bulletin 112, Part II, Bureau of Chemistry.) Price 20 cents.

Injury to Vegetation and Animal Life by Smelter Wastes. By J. K. Haywood, Chief of the Miscellaneous Laboratory. Pp. 40, plates 8. (Bulletin 113, Bureau of Chemistry.) Price 10 cents.

Some Miscellaneous Results of the Work of the Bureau of Entomology—IX. Insects Injurious to the Loco Weeds. By F. H. Chittenden, Entomologist in Charge of Breeding Experiments. Pp. 33-42, figs. 7. (Bulletin 64, Part V, Bureau of Entomology.) Price 5 cents.

Papers on Deciduous Fruit Insects and Insecticides. Grape Rootworm Investigations in 1907. By Fred Johnson, Engaged in Deciduous Fruit Insect Investigations. Pp. 61-68, pls. 2. (Bulletin 68, Part VI, Bureau of Entomology.) Price 5 cents.

Same, Demonstration Spraying for the Codling Moth. Pp. 69-76. (Bulletin 68, Part VII, Bureau of Entomology.) Price 5 cents.



Papers on Coccidæ or Scale Insects. The National Collection of Coccidæ. By C. L. Marlatt, Entomologist and Assistant Chief of Bureau. Pp. 1-10. (Bulletin 16, Part I, Technical Series, Bureau of Entomology.) Price 5 cents.

The Prevention of Injury by Floods in the Neosho Valley, Kansas. By J. O. Wright, Supervising Drainage Engineer. Prepared under the direction of C. G. Elliott, Chief of Drainage Investigations. Pp. 44, pls. 14, figs. 3. (Bulletin 198, Office of Experiment Stations.) Price 20 cents.

Proceedings of the Twelfth Annual Meeting of the American Association of Farmers' Institute Workers, held at Washington, D. C., October 23-24, 1907. Edited by W. H. Beal, for the Office of Experiment Stations, and John Hamilton, for the Association. Pp. 79. (Bulletin 199, Office of Experiment Stations.) Price 15 cents.

Experiment Station Record, Vol. XIX, No. 8, April, 1908. E. W. Allen, Ph. D., Editor. Pp. x, 701-800. (No single copies of Vol. XIX sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume XIX, at \$1.50 per volume, payable in advance.

Miscellaneous Papers. I. The supposed Relationship of White Snakeroot to Milk-sickness, or "Trembles." By Albert C. Crawford, Pharmacologist, Poisonous-Plant Investigations. II. Mountain Laurel, a Poisonous Plant. By Albert C. Crawford, Pharmacologist, Poisonous-Plant Investigations. III. Results of Loco-weed Investigations in the Field. By C. Dwight Marsh, Expert, Poisonous-Plant Investigations. Laboratory Work on Loco-weed Investigations. By Albert C. Crawford, Pharmacologist, Poisonous-Plant Investigations. IV. The Sources of Arsenic in Certain Samples of Dried Hops. By W. W. Stockberger, Expert, Drug-Plant Investigations. V. Apple Leaf-spot Caused by *Sphaeropsis Malorum*. By W. M. Scott, Pathologist, and James B. Rorer, Assistant Pathologist, Investigations of Diseases of Fruits. VI. The Immunity of the Japanese Chestnut to the Bark Disease. By Haven Metcalf, Pathologist in Charge of the Laboratory of Forest Pathology. Pp. 59, pls. 4. (Bulletin 121, Bureau of Plant Industry.) Price 15 cents.

Curly-top, a Disease of the Sugar Beet. By C. O. Townsend, Pathologist in Charge of Sugar-Beet Investigations. Pp. 37, pls. 11. (Bulletin 122, Bureau of Plant Industry.) Price 15 cents.

The Decay of Oranges While in Transit from California. By G. Harold Powell, Pomologist in Charge of Fruit Transportation and Storage Investigations, assisted by A. V. Stubenrauch, L. S. Tenny, H. J. Eustace, G. W. Hosford, and H. M. White, of Field Investigations in Pomology. Pp. 79, pls. 9, figs. 26. (Bulletin 123, Bureau of Plant Industry.) Price 20 cents.

Dry-land Olive Culture in Northern Africa. By Thomas H. Kearney, Physiologist in Charge of Alkali and Drought Resistant Plant-Breeding Investigations. Pp. 48, pls. 4, figs. 10. (Bulletin 125, Bureau of Plant Industry.) Price 10 cents.

The Improvement of Mountain Meadows. By J. S. Cotton, Scientific Assistant, Farm Management Investigations. Pp. 29, pls. 4. (Bulletin 127, Bureau of Plant Industry.) Price 10 cents.

Recent Studies of the Olive-tubercle Organism. By Erwin F. Smith, Pathologist in Charge of the Laboratory of Plant Pathology. Pp. 24-43. (Bulletin 131, Part IV, Bureau of Plant Industry.) Price 5 cents.

Absorption of Vapors and Gases by Soils. By Harrison E. Patten and Francis E. Gallagher. Pp. 50, figs. 19. (Bulletin 51, Bureau of Soils.) Price 10 cents.

Laws Applicable to the United States Department of Agriculture. Pp. 255. (No number, Office of the Solicitor.) Price 25 cents, paper; \$1.00, canvas.

Corn Crops of the United States, 1866-1906. Prepared under the direction of Charles C. Clark, Associate Statistician. Pp. 37. (Bulletin 56, Bureau of Statistics.) Price 10 cents. (Issued November 27, 1907.)

Wheat Crops of the United States, 1866-1906. Prepared under the direction of Charles C. Clark, Associate Statistician. Pp. 35. (Bulletin 57, Bureau of Statistics.) Price 10 cents. (Issued November 25, 1907.)

#### REPRINT.

Bulletin 47, Bureau of Forestry. Forest Resources of Texas. Price 15 cents.

#### CIRCULARS.

##### NEW.

The Labeling of Mocha Coffee. Pp. 3. (Food Inspection Decision 91, Office of the Secretary.)

The Use of Copper Salts in the Greening of Foods. Pp. 2. (Food Inspection Decision 92, Office of the Secretary.)

Amendment to Regulation 34 (F. I. D. 93). The Labeling of Medicinal and Table Waters (F. I. D. 94). The Use of Neutral Spirits Distilled from Beet Sugar Molasses in the Preparation of Whisky Compounds and Imitation Whiskies (F. I. D. 95). Pp. 4. (Food Inspection Decisions 93-95, Office of the Secretary.)

Serial Number Guaranty. Pp. 2. (Food Inspection Decision 96, Office of the Secretary.)

Rules and Regulations for the Enforcement of the Food and Drugs Act. Pp. 20. (Circular 21, Revised, Office of the Secretary.)

How to Get Rid of Cattle Ticks. Pp. 4. (Circular 97, Revised, Bureau of Animal Industry.)

Tubercle Bacilli in Butter: Their Occurrence, Vitality, and Significance. By E. C. Schroeder, Superintendent of Experiment Station, and W. E. Cotton, Expert Assistant at Experiment Station. Pp. 23. (Circular 127, Bureau of Animal Industry.)

Rabies and Its Increasing Prevalence. By George H. Hart, Assistant in Pathology and Bacteriology, Pathological Division. Pp. 26, fig. 1. (Circular 129, Bureau of Animal Industry.)

A Practical Method for the Detection of Beef Fat in Lard. Pp. 9. (Circular 132, Bureau of Animal Industry.)

Destruction of Wolves and Coyotes. By Vernon Bailey. Pp. 11, fig. 1. (Circular 63, Bureau of Biological Survey.)

The Apple Maggot or "Railroad Worm." (*Rhagoletis (Trypeta) pomonella* Walsh.) By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations. Pp. 12. (Circular 101, Bureau of Entomology.)



- Asparagus Beetles. By F. H. Chittenden, Entomologist in Charge of Breeding Experiments. Pp. 12. (Circular 102, Bureau of Entomology.)
- Organization, Work, and Publications of Irrigation Investigations. Pp. 11. (Doc. 1079, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during April, 1908. Pp. 7. (Doc. 1091, Office of Experiment Stations.)
- Experiments with Railway Cross-ties. By H. B. Eastman, Forest Assistant. Pp. 22, figs. 3. (Circular 146, Forest Service.)
- Progress in Chestnut Pole Preservation. By Howard F. Weiss, Chief, Section of Research, Office of Wood Preservation. Pp. 14, figs. 2. (Circular 147, Forest Service.)
- Practical Results in Basket Willow Culture. By C. D. Mell, Assistant Dendrologist. Pp. 7. (Circular 148, Forest Service.)
- Condition of Cut-over Longleaf Pine Lands in Mississippi. By J. S. Holmes, Forest Examiner, and J. H. Foster, Forest Assistant, Forest Service. Pp. 8. (Circular 149, Forest Service.)
- Self-boiled Lime-sulphur Mixture as a Promising Fungicide. By W. M. Scott, Pathologist in Charge of Orchard Spraying Demonstrations, Investigations of Diseases of Fruits. Pp. 18, figs. 2. (Circular 1, Bureau of Plant Industry.)
- An Improved Method of Separating Buckhorn from Red Clover and Alfalfa Seeds. By Harry B. Shaw, Scientific Assistant, Sugar-Beet Investigations. Pp. 12, figs. 10. (Circular 2, Bureau of Plant Industry.)
- Some Stem Tumors or Knots on Apple and Quince Trees. By George G. Hedgcock, Scientific Assistant, Investigations of Diseases of Fruits. Pp. 16, figs. 11. (Circular 3, Bureau of Plant Industry.)
- The Treatment of Damping-off in Coniferous Seedlings. By Perley Spaulding, Scientific Assistant, Laboratory of Forest Pathology. Pp. 8. (Circular 4, Bureau of Plant Industry.)
- Barley Culture in the Northern Great Plains. By Mark Alfred Carleton, Cerealists in Charge of Grain Investigations. Pp. 12. (Circular 5, Bureau of Plant Industry.)
- The Field Treatment of Tobacco Root-rot. By Lyman J. Briggs, Physicist in Charge of Physical Laboratory. Pp. 8. (Circular 7, Bureau of Plant Industry.)
- The Smuts of Sorghum. By Edward M. Freeman, Pathologist, and Harry J. C. Umberger, Scientific Assistant, Office of Grain Investigations. Pp. 9. (Circular 8, Bureau of Plant Industry.)
- Familiar Talks on Farming. Cultivating the Crop. Pp. 3. (Doc. 365, Bureau of Plant Industry.)
- Field Instructions for Farmers' Cooperative Demonstration Work. Commercial Fertilizers—Their Uses and Cost. Pp. 4. (Doc. 366, Bureau of Plant Industry.)
- Organization of Department of Agriculture, 1908, revised to January 1, 1908. Pp. 41. (Circular 1, Division of Publications.)
- Monthly List of Publications, February–March, 1908. Pp. 4. (Doc. 600, Division of Publications.)
- Monthly List of Publications, April, 1908, Foreign. Pp. 4. (Doc. 604, Division of Publications.)
- Publications of the Office of Public Roads. Pp. 5. (Circular 88, revised, Office of Public Roads.)
- Progress Reports of Experiments with Dust Preventives. Pp. 26. (Circular 89, Office of Public Roads.)
- Crop Reporter, Vol. 10, No. 4, April, 1908. Pp. 25–32. (Bureau of Statistics.)
- Same, Vol. 10, No. 5, May, 1908. Pp. 35–40.

NOTE.—The Reporter is a two-column quarto publication devoted to agricultural statistics.

## FARMERS' BULLETINS.

### NEW.

Experiment Station Work, XLVI. Compiled from the publications of the Agricultural Experiment Stations. Pp. 32. (Farmers' Bulletin 320.)

CONTENTS: Fish fertilizer—Reclamation of salt marshes—Bermuda hay—Protein content of forage crops—Quality in wheat—Potato spraying—Anesthetics in forcing plants—Fattening cattle for market—Cotton-seed meal and corn silage for cows—Carbonated milk—Preservation of fence posts.

The Use of the Split-log Drag on Earth Roads. By D. Ward King. Pp. 16, figs. 5. (Farmers' Bulletin 321.)

This Bulletin contains directions for the construction and uses of a split-log drag and a ditch cleaner, with statements of the cost per mile of maintaining earth roads in several localities, with these implements.

Clover Farming on the Sandy Jack-pine Lands of the North. By C. Beaman Smith, Assistant Agriculturist, Bureau of Plant Industry. Pp. 24, fig. 1. (Farmers' Bulletin 323.)

This Bulletin describes the extent and character of the jack-pine lands of the North and contains information in regard to its purchase, cost, etc., with suggestions for its treatment, care of the clover crop, and handling the seed.

Sweet Potatoes. By W. R. Beattie, Assistant Horticulturist, Bureau of Plant Industry. Pp. 39, figs. 24. (Farmers' Bulletin 324.)

Importance of the sweet-potato industry, areas adapted to sweet-potato culture, soil requirements, construction of hotbeds, cultivating and harvesting the crop, with directions for the construction of storage houses, grading and packing the potatoes for market, and descriptions of the different varieties.

Small Farms in the Corn Belt. By J. A. Warren, Scientific Assistant, Bureau of Plant Industry. Pp. 31, figs. 3. (Farmers' Bulletin 325.)

This Bulletin describes a 40-acre farm in Saunders County, a 40-acre farm in Adams County, and a 20-acre farm in Pawnee County, in the State of Nebraska. It contains an account of the methods of crop rotation and cultivation practiced on these farms, with itemized statements of the cost of equipments and production of the crops, with their receipts, for a number of years.

Building up a Run-down Cotton Plantation. By D. A. Brodie, Assistant Agriculturist, Bureau of Plant Industry. Pp. 24, figs. 9. (Farmers' Bulletin 326.)

This bulletin contains an account of three years' work in changing a run-down cotton plantation of 385 acres, in Phillips County, Ark., into a profitable stock and hay farm. It emphasizes the value of leguminous crops, good seed, and good stock.

The Conservation of Natural Resources. By Gifford Pinchot, Forester. Pp. 14. (Farmers' Bulletin 327.)

The substance of this bulletin was delivered as an address before the National Geographic Society, in Washington, D. C., January 31, 1908. It tells of the waste of our resources, the danger of monopoly, the problem of future supply, and the necessity for careful handling and wise legislation.



## SEPARATE.

NEW.

Changes in the Personnel of the Experiment Stations and Factors influencing Them. Pp. 8. (O. E. S. Doc. 1089, Repr. from Experiment Station Record, Vol. XIX, No. 7.)

## PUBLICATIONS OF THE WEATHER BUREAU.

Monthly Weather Review, Vol. XXXVI, No. 1, January, 1908. Prepared under the direction of Willis L. Moore, Chief, United States Weather Bureau. Pp. 15, charts 8. (W. B. 386.) Price 20 cents; \$2.50 per year.

*Same*, Vol. XXXVI, No. 2, February, 1908. Prepared under the direction of Willis L. Moore, Chief, United States Weather Bureau. Pp. 49, charts 19, figs. 11. (W. B. 387.) Price 20 cents; \$2.50 per year.

*Same*, Vol. XXXVI, No. 3, March, 1908. Prepared under the direction of Willis L. Moore, Chief, United States Weather Bureau. Pp. 84, charts 16, figs. 2. (W. B. 389.) Price 20 cents; \$2.50 per year.

National Weekly Weather Bulletin, reporting temperature and rainfall with a summary of weather conditions throughout the United States. Issued March 23 and 30, and each Monday in April and May (Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10).

GEO. WM. HILL,  
*Editor and Chief.*

Approved:  
JAMES WILSON,  
*Secretary of Agriculture.*



This circular will be sent regularly to all who apply for it.

No. 608.

## United States Department of Agriculture,

### DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *June 30, 1908.*

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## MONTHLY LIST OF PUBLICATIONS.

[JUNE, 1908.]

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#### ADVANCE SHEETS, SOIL SURVEY.

Soil Survey of Conway County, Arkansas. By James L. Burgess and Charles W. Ely. Pp. 23, fig. 1, map. (Field Operations, Bureau of Soils, 1907.)

Soil Survey of Edgecombe County, North Carolina. By W. Edward Hearn, assisted by G. M. MacNider of the North Carolina Department of Agriculture. Pp. 25, fig. 1, map. (Field Operations, Bureau of Soils, 1907.)

Soil Survey of Wilson County, Texas. By W. S. Lyman and Frank C. Schroeder. Pp. 26, fig. 1, map. (Field Operations, Bureau of Soils, 1907.)

#### REPORT.

##### NEW.

Annual Report of Alaska Agricultural Experiment Stations for 1907. By C. C. Georgeson, Special Agent in Charge. Under the Supervision of the Office of Experiment Stations, Department of Agriculture. Pp. 98, pls. 7, figs. 3.

#### BULLETINS.

##### NEW.

Varieties of Cheese: Descriptions and Analyses. By C. F. Doane, Assistant Dairyman, Dairy Division, and H. W. Lawson, Office of Experiment Stations. Pp. 72. (Bulletin 105, Bureau of Animal Industry.) Price, 10 cents.

Miscellaneous Papers on Apiculture. Bee Diseases in Massachusetts. By Burton N. Gates, Expert in Apiculture. Pp. 10, map. (Bulletin 75, Part III, Bureau of Entomology.) Price, 5 cents.

A Revision of the Ixodoidea, or Ticks, of the United States. By Nathan Banks, Assistant Entomologist. Pp. 61, pls. 10. (Bulletin 15, Technical Series, Bureau of Entomology.) Price, 15 cents.

Hawaiian Honeys. By D. L. Van Dine, Entomologist, and Alice R. Thompson, Assistant Chemist, Hawaii Agricultural Experiment Station. Pp. 21, pl. 1. (Bulletin 17, Hawaii Agricultural Experiment Station.) Price, 5 cents.



Experiment Station Record, Vol. XIX, No. 9, May, 1908. E. W. Allen, Ph. D., Editor. Pp. viii, 801-900. (No single copies of Vol. XIX sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

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Nomenclature of the Pear; A Catalogue-index of the Known Varieties Referred to in American Publications from 1804 to 1907. Compiled by W. H. Ragan, Expert in Pomological Nomenclature. Pp. 268. (Bulletin 126, Bureau of Plant Industry.) Price, 30 cents.

Egyptian Cotton in the Southwestern United States. By Thomas Kearney, Physiologist in Charge of Alkali and Drought Resistant Plant Breeding Investigations, and William A. Peterson, Farm Superintendent, Western Agricultural Extension Investigations. Pp. 71, pls. 5, figs. 2. (Bulletin 128, Bureau of Plant Industry.) Price, 15 cents.

Rye Crops of the United States, 1866-1906. Prepared under the direction of Charles C. Clark, Associate Statistician. Pp. 35. (Bulletin 60, Bureau of Statistics.) Price, 10 cents.

Buckwheat Crops of the United States, 1866-1906. Prepared under the direction of Charles C. Clark, Associate Statistician. Pp. 24. (Bulletin 61, Bureau of Statistics.) Price, 5 cents.

Potato Crops of the United States, 1866-1906. Prepared under the direction of Charles C. Clark, Associate Statistician. Pp. 37. (Bulletin 62, Bureau of Statistics.) Price, 10 cents.

Russian Wheat and Wheat Flour in European Markets. By I. M. Rubinow. Pp. 99, diagrams, 11. (Bulletin 66, Bureau of Statistics.) Price, 15 cents.

#### REPRINTS.

Bulletin 86, Bureau of Chemistry. Arsenic in Papers and Fabrics. Price, 5 cents.

Bulletin 155, Office of Experiment Stations. Agricultural Instruction for Adults in the British Empire. Price, 5 cents.

Bulletin 163, Office of Experiment Stations. Agricultural Instruction for Adults in Continental Countries. Price, 5 cents.

Bulletin 102, Part III, Bureau of Plant Industry. Planning a Cropping System. Price, 5 cents.

Bulletin 117, Bureau of Plant Industry. The Reseeding of Depleted Range and Native Pastures. Price, 10 cents.

Bulletin 123, Bureau of Plant Industry. The Decay of Oranges while in Transit from California. Price, 20 cents.

Bulletin 131, Part III, Bureau of Plant Industry. The Cross-inoculation of Fruit Trees and Shrubs with Crown-gall. Price, 5 cents.

Bulletin 49, Bureau of Statistics. Costs of Hauling Crops from Farms to Shipping Points. By Frank Andrews, Expert in Transportation, Division of Foreign Markets. Price, 10 cents.

#### CIRCULARS.

##### NEW.

Classification for American Carriage Horses. By George M. Rommel, Animal Husbandman. Pp. 4. (Circular 113, revised, Bureau of Animal Industry.)

Directions for the Destruction of Prairie Dogs. Pp. 3, fig. 1. (Circular 32, second revised edition, Bureau of Biological Survey.)

Destruction of the Cotton Boll Weevil by Birds in Winter. By Arthur H. Howell, Assistant, Biological Survey. Pp. 5, fig. 1. (Circular 64, Bureau of Biological Survey.)

The Harlequin Cabbage Bug (*Murgantia histrionica* Hahn). By F. H. Chittenden, Entomologist in Charge of Breeding Experiments. Pp. 10, fig. 1. (Circular 103, Bureau of Entomology.)

Progress Report on Irrigation Experiments in Willamette Valley, Oregon. By A. P. Stover, in Charge of Irrigation Work in Oregon. Pp. 25, figs. 7. (Circular 78, Office of Experiment Stations.)

The Cultivation and Handling of Goldenseal. By Alice Henkel, Assistant, and G. Fred Klugh, Scientific Assistant, Drug-Plant Investigations. Pp. 19, figs. 7. (Circular 6, Bureau of Plant Industry.)



- Texas Root-rot of Cotton: Field Experiments in 1907. By C. L. Shear, Pathologist, and George F. Miles, Scientific Assistant. Pp. 7, fig. 1. (Circular 9, Bureau of Plant Industry.)
- Notes on Dry Farming. By William M. Jardine, Agronomist in Charge of Experiments with Dry-Land Cereals, Grain Investigations. Pp. 6. (Circular 10, Bureau of Plant Industry.)
- Farmers' Bulletin Subject Index (Revised to include Bulletin 320). Pp. 31. (Circular 4, Division of Publications.)
- Monthly List of Publications, April-May, 1908. Pp. 4. (Doc. 605, Division of Publications.)
- Crop Reporter, Vol. 10, No. 6, June, 1908. Pp. 41-48. (Bureau of Statistics.)

NOTE.—The Reporter is a two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

- Food Inspection Decisions 84 and 85, Office of the Secretary. 84. Amendments to Regulations 17 and 19. 85. Labeling of Bitters.
- Circular 71, Bureau of Animal Industry. Anthrax in Cattle and Men.
- Circular 78, Bureau of Animal Industry. Glanders and Farcy.
- Circular 95, Bureau of Animal Industry. The Fecundity of Poland China and Duroc Jersey Sows.
- Circular 98, Bureau of Animal Industry. Some Unusual Host Relations of the Texas Fever Tick.
- Circular 102, Bureau of Animal Industry. Stomach Worms (*Hæmonchus contortus*) in Sheep.
- Circular 119, Bureau of Animal Industry. Notes on Experiments with Blackhead of Turkeys.
- Circular 120, Bureau of Animal Industry. Some Observations on Rabies.
- Circular 128, Bureau of Animal Industry. White Diarrhea of Chicks.
- Circular 129, Bureau of Animal Industry. Rabies and Its Increasing Prevalence.
- Circular 13, Bureau of Chemistry. Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1903.
- Circular 20, Bureau of Chemistry. Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1904.
- Circular 32, Bureau of Chemistry. Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1906.
- Circular 32, Third Revision, Bureau of Entomology. The Larger Apple-tree Borers.
- Circular 57, Bureau of Entomology. The Greenhouse White Fly.
- Circular 60, Bureau of Entomology. The Imported Cabbage Worm.
- Circular 84, Bureau of Entomology. The Grasshopper Problem and Alfalfa Culture.
- Circular 88, Bureau of Entomology. The Terrapin Scale.
- Circular 56, Forest Service. Bur Oak (*Quercus macrocarpa*).
- Circular 66, Forest Service. White Elm (*Ulmus americana*).
- Circular 72, Forest Service. Western Yellow Pine (*Pinus ponderosa*).
- Circular 74, Forest Service. Honey Locust (*Gleditsia triacanthos*).
- Circular 75, Forest Service. Hackberry (*Celtis occidentalis*).
- Circular 80, Forest Service. The Fractional Distillation of Coal-tar Creosote.
- Circular 86, Forest Service. Boxelder (*Acer negundo*).
- Circular 91, Forest Service. Coffeetree (*Gymnocladus dioica*).
- Circular 93, Forest Service. Yellow Poplar (*Liriodendron tulipifera*).
- Circular 103, Forest Service. Seasoning of Telephone and Telegraph Poles.
- Circular 117, Forest Service. The Preservative Treatment of Fence Posts.
- Misc. Forest Service. The Use of the National Forests.
- Circular 120, Forest Service. Consumption of Pulpwood in 1906.
- Circular 3, Bureau of Plant Industry. Some Stem Tumors or Knots on Apple and Quince Trees.
- Circular 47, Office of Public Roads. Tar and Oil for Road Improvement: Report of Progress of Experiments at Jackson, Tennessee.

#### FARMERS' BULLETIN.

- Milo as a Dry-land Grain Crop. By Carleton R. Ball, Agronomist in Charge of Grain Sorghum Investigations, and Arthur H. Leidigh, Superintendent of the Amorillo Experimental Farm, Grain Investigations, Bureau of Plant Industry. Pp. 23, figs. 9. (Farmers' Bulletin 322.)

This bulletin describes the characteristics of milo, method of cultivation, marketing, insect enemies, and fungous diseases, etc., and emphasizes its suitability as a grain crop for semiarid regions.



## SEPARATES.

## REPRINTS.

- Separate 197, Yearbook, 1900. How Birds Affect the Orchard.  
 Separate 285, Yearbook, 1902. Progress in Secondary Education in Agriculture.  
 Separate 324, Yearbook, 1903. Wheat Flour and Bread.  
 Separate 381, Yearbook, 1905. Insect Enemies of Forest Reproduction.  
 Separate 386, Yearbook, 1905. The Principal Insect Enemies of the Peach.  
 Separate 424, Yearbook, 1906. Nuts and Their Uses as Food.  
 Document 1025, Annual Report, Office of Experiment Stations, 1906. Progress in Agricultural Education, 1906.  
 Document 1026, Annual Report, Office of Experiment Stations, 1906. The Farmers' Institutes in the United States.  
 Document 1027, Annual Report, Office of Experiment Stations, 1906. The Nutrition Investigations of the Office of Experiment Stations and Their Results.  
 Document 1093, Annual Report, Porto Rico Agricultural Experiment Station, 1907. The Fermentation of Cacao and of Coffee.

## PUBLICATIONS OF THE WEATHER BUREAU.

- Monthly Weather Review, Vol. XXXVI, No. 4, April, 1908. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 40, charts 16. (W. B. No. 390.) Price, 20 cents; \$2.50 per year.  
 National Weekly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. Issued each Monday in June. (Nos. 11, 12, 13, 14, 15.)

GEO. WM. HILL,  
*Editor and Chief.*

Approved:  
 JAMES WILSON,  
*Secretary of Agriculture.*



This circular will be sent regularly to all who apply for it.

No. 612.

## United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *July 31, 1908.*

### MONTHLY LIST OF PUBLICATIONS.

[JULY, 1908.]

**NOTE.**—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted.

**THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.**

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

#### ADVANCE SHEETS, SOIL SURVEY.

Soil Survey of the Morton Area, North Dakota. By Thomas D. Rice, assisted by Ray Babcock and John T. Weaver. Pp. 26, fig. 1, map. (Field Operations, Bureau of Soils, 1907.)

#### REPORTS.

##### NEW.

Yearbook of the U. S. Department of Agriculture, 1907. Pp. 798, frontispiece, pls. 65, figs. 56. Price, \$1.

The Yearbook contains the annual report of the Secretary of Agriculture, 138 pages, and twenty-seven miscellaneous papers, 359 pages, covering a wide variety of subjects thoroughly representative of the varied scientific work conducted by the Department; also an Appendix, 264 pages, and Index, 36 pages. The Appendix contains lists of names and post-offices of persons prominent in agricultural work in all its branches, including a statement of the Department organization with the names of the persons in charge of the several branches of the work. It presents summaries of agricultural observations in several fields of legislation on forestry, roads, and game protection. It closes with the annual statistical tables covering production and prices of the principal crops and farm animals, and the imports and exports of agricultural products. Some new features are tables showing the wool clip of the principal countries of the world, the annual value of the agricultural exports from 1851 to 1907 compared with the total annual value of all exports, and the cost of hauling the chief crops from farms to shipping points.

Only 6 out of each 100 of this publication are assigned to this Department, which is insufficient to supply even its regular correspondents and coworkers. Miscellaneous applicants are therefore respectfully referred to their Senators, Representatives, and Delegates in Congress, to whom the other 94 per cent are allotted for distribution. The Superintendent of Documents sells it at \$1 per copy.

#### REPRINTS.

Report of the Chemist for 1907.

Report of the Forester for 1907.



## BULLETINS.

## NEW.

Index-catalogue of Medical and Veterinary Zoology. Part 20. (Authors: N to Nystrom.) By Ch. Wardell Stiles, Consulting Zoologist of the Bureau of Animal Industry, and Albert Hassall, Assistant in Zoology, Bureau of Animal Industry. Pp. 1493-1574. (Bulletin 39, Part 20, Bureau of Animal Industry.) Price, 15 cents.

*Same.* Part 21. (Authors: O to Ozzard.) By Ch. Wardell Stiles, Consulting Zoologist of Bureau of Animal Industry, and Albert Hassall, Assistant in Zoology, Bureau of Animal Industry. Pp. 1575-1624. (Bulletin 39, Part 21, Bureau of Animal Industry.) Price, 10 cents.

The Analysis of Coal-tar Creosote and Cresylic Acid Sheep Dips. By Robert M. Chapin, Assistant Chemist, Biochemic Division. Pp. 35, fig. 1. (Bulletin 107, Bureau of Animal Industry.) Price, 10 cents.

Influence of Food Preservatives and Artificial Colors on Digestion and Health. IV.—Benzoic Acid and Benzoates. By H. W. Wiley, with the collaboration of W. D. Bigelow, Chief of the Division of Foods, F. C. Weber, and others. Pp. 1043-1294, figs. 2. (Bulletin 84, Part IV, Bureau of Chemistry.) Price, 25 cents.

Official and Provisional Methods of Analysis, Association of Official Agricultural Chemists. As compiled by the Committee on Revision of Methods (J. K. Haywood, Chairman, J. P. Street, F. W. Woll, J. H. Pettit, L. M. Tolman, F. P. Veitch, and A. L. Winton), November 1, 1906, and provisionally adopted by the Association; further revised and finally adopted October, 1907. Edited by Harvey W. Wiley, Secretary of the Association. Pp. 272, figs. 13. (Bulletin 107, revised, Bureau of Chemistry.) Price, 20 cents.

Course in Cereal Foods and Their Preparation, for Movable Schools of Agriculture. By Margaret J. Mitchell, Drexel Institute of Art, Science, and Industry, Philadelphia, Pa. Pp. 78. (Bulletin 200, Office of Experiment Stations.) Price, 10 cents.

Experiment Station Record, Vol. XIX, No. 10, June, 1908. E. W. Allen, Ph. D., Editor. Pp. ix, 901-1000. (No single copies of Vol. XIX sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume XIX, at \$1.50 per volume, payable in advance.

The Ceara Rubber Tree in Hawaii. By Jared G. Smith, Special Agent in Charge of Hawaii Agricultural Experiment Station, and Q. Q. Bradford, Assistant in Rubber Investigations. Pp. 30, pls. 4. (Bulletin 16, Hawaii Agricultural Experiment Station.) Price, 10 cents.

The Nectaries of Cotton. By Frederick J. Tyler, Scientific Assistant, Fiber Plant Investigations. Pp. 54, pl. 1. (Bulletin 131, Part V, Bureau of Plant Industry.) Price, 5 cents.

Number and Farm Value of Farm Animals in the United States, 1867-1907. Prepared under the direction of Charles C. Clark, Associate Statistician. Pp. 145. (Bulletin 64, Bureau of Statistics.) Price, 15 cents.

## REPRINTS.

Bulletin 112, Bureau of Chemistry. Food Legislation During the Year Ended June 30, 1907. Part I. Federal Laws and Laws of States and Territories, Alabama to New Hampshire, inclusive. Price, 20 cents.

*Same*, Part II. Laws of States and Territories, New Jersey to Wyoming, inclusive. Price, 20 cents.

Bulletin 68, Part I, Bureau of Entomology. The Pear Thrips. Price, 10 cents.

Bulletin 68, Part IV, Bureau of Entomology. The Lesser Peach Borer. Price, 5 cents.

Bulletin 178, Office of Experiment Stations. Course in Fruit Growing for Movable Schools of Agriculture. Price, 15 cents.

Bulletin 42, Bureau of Plant Industry. Three New Plant Introductions from Japan. Price, 10 cents.



- Bulletin 102, Part I, Bureau of Plant Industry. Summary of Recent Investigations of the Value of Cacti as Stock Food. Price, 5 cents.
- Bulletin 111, Part IV. Bureau of Plant Industry. Forage Crops for Hogs in Kansas and Oklahoma. Price, 5 cents.
- Bulletin 116, Bureau of Plant Industry. The Tuna as Food for Man. Price, 25 cents.
- Bulletin 117, Bureau of Plant Industry. The Reseeding of Depleted Range and Native Pastures. Price, 10 cents.
- Bulletin 118, Bureau of Plant Industry. Peruvian Alfalfa: A New Long-season Variety for the Southwest. Price, 10 cents.
- Bulletin 29, Division of Vegetable Physiology and Pathology. Plant Breeding. Price, 10 cents.
- Bulletin 30, Bureau of Soils. The Mineral Constituents of the Soil Solutions. Price, 5 cents.
- Bulletin 48, Bureau of Soils. Fertility of Soils as Affected by Manures. Price, 10 cents.
- Bulletin 50, Bureau of Soils. Moisture Content and Physical Condition of Soils. Price, 15 cents.
- Bulletin 49, Bureau of Statistics. Costs of Hauling Crops from Farms to Shipping Points. Price, 10 cents.

## CIRCULARS.

## NEW.

- Notice of Judgment No. 3, Food and Drugs Act. Pp. 2. (Office of the Secretary.)
- Report and Recommendations Regarding Veterinary Colleges in the United States. Pp. 13. (Circular 133, Bureau of Animal Industry.)
- General Results of the Investigations Showing the Effect of Benzoic Acid and Benzoates upon Digestion and Health. Pp. 15. (Circular 39, Bureau of Chemistry.)
- The Common Squash Bug. (*Anasa tristis* DeG.) By F. H. Chittenden, Entomologist in Charge of Breeding Experiments. Pp. 5, figs. 3. (Circular 39, Second Revise, Bureau of Entomology.)
- The Cabbage Hair-worm. By F. H. Chittenden, Entomologist in Charge of Breeding Experiments. Pp. 6, fig. 1. (Circular 62, Revised Edition, Bureau of Entomology.)
- Requirements to be Complied with by Nurserymen or Others Who Make Interstate Shipments of Nursery Stock. By A. F. Burgess, Expert in Breeding Experiments. Pp. 7. (Circular 75, Revised Edition, Bureau of Entomology.)
- List of Station Publications Received by the Office of Experiment Stations during June, 1908. Pp. 6. (Document 1102, Office of Experiment Stations.)
- The Preservative Treatment of Loblolly Pine Cross-Arms. By W. F. Sherfese, Chief, Office of Wood Preservation. Pp. 29, figs. 9. (Circular 151, Forest Service.)
- The Use Book. Regulations and Instructions for the Use of the National Forests. Issued by the Secretary of Agriculture, July 1, 1908. Pp. 109. (Miscellaneous, Forest Service.)
- Seed Selection for Southern Farms. Pp. 8, figs. 6. (Doc. 386, Bureau of Plant Industry.)
- Bulletins of the Bureau of Plant Industry. Pp. 4. (Miscellaneous, Bureau of Plant Industry.)
- Crop Reporter, Vol. 10, No. 7. July, 1908. Pp. 49-56. (Bureau of Statistics.)
- The Reporter is a two-column quarto publication devoted to agricultural statistics.

## REPRINTS.

- Circular 67, Bureau of Animal Industry. Abortion, or Slinking the Calf.
- Circular 75, Bureau of Animal Industry. Feeding Fat into Milk.
- Circular 79, Bureau of Animal Industry. The Tuberculin Test for Tuberculosis.
- Circular 125, Bureau of Animal Industry. The Federal Meat-inspection Service.
- Circular 128, Bureau of Animal Industry. White Diarrhea of Chicks.
- Circular 129, Bureau of Animal Industry. Rabies and its Increasing Prevalence.
- Circular 37, Bureau of Chemistry. General Results of the Investigations Showing the Effect of Sulphurous Acid and Sulphites upon Digestion and Health.



- Circular 51, Revised. Bureau of Entomology. Cockroaches.  
 Circular 68, Bureau of Entomology. The Tobacco Thrips, and Remedies to Prevent "White Veins" in Wrapper Tobacco.  
 Circular 72, Office of Experiment Stations. Report of Committee on Extension Work.  
 Circular 35, Forest Service. Forest Preservation and National Prosperity.  
 Circular 39, Forest Service. Experiments on the Strength of Treated Timber.  
 Circular 128, Forest Service. Preservation of Piling against Marine Wood Borers.  
 Circular 134, Forest Service. The Estimation of Moisture in Creosoted Wood.  
 Circular 136, Forest Service. The Seasoning and Preservative Treatment of Arbor vitæ Poles.  
 Circular 141, Forest Service. Wood Paving in the United States.  
 Circular 149, Forest Service. Condition of Cut-over Longleaf Pine Lands in Mississippi.  
 Circular 2, Division of Publications. Publications for Free Distribution, Revised to June 10, 1908.  
 Circular 6, Office of the Solicitor. The Twenty-eight Hour Law.

#### FARMERS' BULLETIN.

##### NEW.

Deer Farming in the United States. By D. E. Lantz, Assistant, Biological Survey. Pp. 20, figs. 2. (Farmers' Bulletin 330.)

This bulletin discusses the economic importance of the deer family, the species suitable for domestication, their management, breeding, etc., with a statement of the game laws in regard to deer farming in the several States, and some experiences of deer farmers.

##### SEPARATES.

##### REPRINTS.

- Separate 37, Yearbook, 1895. Four Common Birds of the Farm and Garden.  
 Separate 194, Yearbook, 1900. The Food of Nestling Birds.  
 Separate 285, Yearbook, 1902. Progress in Secondary Education in Agriculture.  
 Separate 290, Yearbook, 1902. Fertilizers for Special Crops.  
 Separate 327, Yearbook, 1903. Insect Injuries to Hardwood Forest Trees.  
 Separate 376, Yearbook, 1905. How to Grow Young Trees for Forest Planting.  
 Document 1099, from Annual Report, Alaska Agricultural Experiment Stations, 1907. Dairy Practice at Kenai Station.

#### PUBLICATIONS OF THE WEATHER BUREAU.

National Weekly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. Issued each Tuesday in July. (Nos. 16, 17, 18, 19.)

JOS. A. ARNOLD,  
*Acting Editor and Chief.*

Approved:  
 JAMES WILSON,  
*Secretary of Agriculture.*



This circular will be sent regularly to all who apply for it.

No. 613.

## United States Department of Agriculture,

### DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *August 31, 1908.*

## MONTHLY LIST OF PUBLICATIONS.

[AUGUST, 1908.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted.

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The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

#### ADVANCE SHEETS, SOIL SURVEY.

(From Field Operations, Bureau of Soils, 1907.)

- Soil Survey of Jefferson County, Florida. By Grove B. Jones, W. E. Tharp, and H. L. Belden. Pp. 39, fig. 1, map.
- Soil Survey of the McKenzie Area, North Dakota. By A. E. Kocher, assisted by R. P. Stevens, of the Agricultural and Economic Geological Survey of North Dakota. Pp. 25, fig. 1, map.
- Soil Survey of Brownsville Area, Texas. By A. W. Mangum and Ora Lee, Jr. Pp. 32, fig. 1, map.
- Soil Survey of the Cooper Area, Texas. By Thomas D. Rice and H. C. Smith. Pp. 24, fig. 1, map.
- Soil Survey of Bastrop County, Texas. By R. A. Winston, F. N. Meeker, O. L. Eckman, W. S. Lyman, Frank C. Schroeder, Thomas D. Rice, and H. C. Smith. Pp. 46, fig. 1, map.

#### BULLETINS.

##### NEW.

- Papers on Coccidæ or Scale Insects. Part II, New Species of Diaspine Scale Insects. By C. L. Marlatt, Entomologist and Assistant Chief of Bureau. Pp. 32, pls. 9. (Bulletin 16, Technical series, Part II, Bureau of Entomology.) Price 15 cents.
- Experiment Station Record, Vol. XIX, No. 11, July, 1908. E. W. Allen, Ph. D., Editor. Pp. ix, 1001–1100. (No single copies of Vol. XIX sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume XIX, at \$1.50 per volume, payable in advance.

- Barium, a Cause of the Loco-weed Disease. By Albert C. Crawford, Pharmacologist, Poisonous-Plant Investigations. Pp. 87. (Bulletin 129, Bureau of Plant Industry.) Price 10 cents.
- Miscellaneous Papers. I. The Germination of Vegetable Seeds. By Edgar Brown, Botanist in Charge, and Willard L. Goss, Assistant, Seed Laboratory. II. The Botanical History and Classification of Alfalfa. By Carl S. Scofield, Agriculturist in Charge of Western Agricultural Extension Investigations. III. The Cross-inoculation of Fruit Trees and Shrubs with Crown-gall. By George G. Hedgcock, Scientific Assistant, Investigations of Diseases of Fruits. IV. Recent Studies of the Olive-tubercle Organism. By Erwin F. Smith, Pathologist in Charge of the Laboratory of Plant Pathology. V. The Nec-



taries of Cotton. By Frederick J. Tyler, Scientific Assistant, Fiber Plant Investigations. Pp. 56, pls. 1, figs. 2. (Bulletin 131, Bureau of Plant Industry.) Price 10 cents.

The Influence of a Mixture of Soluble Salts, Principally Sodium Chlorid, upon the Leaf Structure and Transpiration of Wheat, Oats, and Barley. By L. L. Harter, Assistant Physiologist. Pp. 22. (Bulletin 134, Bureau of Plant Industry.) Price 5 cents.

Absorption by Soils. By Harrison E. Patten and William H. Waggaman. Pp. 95, figs. 8. (Bulletin 52, Bureau of Soils.) Price 15 cents.

#### REPRINTS.

Bulletin 28, Biological Survey. Game Commissions and Wardens: Their Appointment, Powers, and Duties. Price 35 cents.

Bulletin 71, Bureau of Entomology. The Periodical Cicada. Price 40 cents.

Bulletin 101, Office of Experiment Stations. Studies on Bread and Bread Making at the University of Minnesota in 1899 and 1900. Price 10 cents.

Bulletin 146, Office of Experiment Stations. Current Wheels: Their Use in Lifting Water for Irrigation. Price 10 cents.

Bulletin 186, Office of Experiment Stations. Plant Production. Price 10 cents.

Bulletin 102, Part I, Bureau of Plant Industry. Summary of Recent Investigations of the Value of Cacti as Stock Food. Price 5 cents.

Bulletin 22, Bureau of Soils. The Chemistry of the Soil as Related to Crop Production. Price 5 cents.

Bulletin 40, Bureau of Soils. Some Factors Influencing Soil Fertility. Price 10 cents.

Bulletin 48, Bureau of Soils. Fertility of Soils as Affected by Manures. Price 10 cents.

Bulletin 50, Bureau of Soils. Moisture Content and Physical Condition of Soils. Price 15 cents.

#### CIRCULARS.

#### NEW.

Misbranding of Vanilla Extract (N. J. 5). Misbranding of Cider (N. J. 6). Misbranding of Eggs (N. J. 7). Adulteration of Milk (formaldehyde) (N. J. 8). Adulteration of Milk (water and formaldehyde) (N. J. 9). Misbranding of Cocain Hydrochlorid (N. J. 10). Adulteration of Milk (water) (N. J. 11). Pp. 10. (Notice of Judgment, Nos. 5-11, Food and Drugs Act, Office of the Secretary.)

Amendment to Regulation 1, Designating Lowelltown, Me. (Port of Bangor), as a Quarantine Station for the Months of September, October, and November, 1908. P. 1. (Amendment 4 to B. A. I. Order 142, Bureau of Animal Industry.)

Directory of Officials and Organizations Concerned with the Protection of Birds and Game, 1908. Pp. 16. (Circular 65, Bureau of Biological Survey.)

Methods for the Analysis of Maple Products and the Detection of Adulterations, together with the Interpretation of the Results Obtained. By A. Hugh Bryan, In Charge, Sugar Laboratory. Pp. 13. (Circular 40, Bureau of Chemistry.)

The Card Index of Experiment Station Literature. Pp. 2. (Circular 47, Revised, Office of Experiment Stations.)

List of Station Publications Received by the Office of Experiment Stations during July, 1908. Pp. 6. (Doc. 1109, Office of Experiment Stations.)

Chestnut Oak in the Southern Appalachians. By H. D. Foster and W. W. Ashe, Forest Assistants. Pp. 23. (Circular 135, Forest Service.)

Exports and Imports of Forest Products: 1907. Compiled by A. H. Pierson, Forest Assistant. Pp. 26. (Circular 153, Forest Service.)

Danger in Judging Cotton Varieties by Lint Percentages. By O. F. Cook, Bionomist in Charge of Bionomic Investigations of Tropical and Subtropical Plants. Pp. 16. (Circular 11, Bureau of Plant Industry.)

Dry-land Grains. By William M. Jardine, Agronomist in Charge of Experiments with Dry-land Cereals, Grain Investigations. Pp. 14. (Circular 12, Bureau of Plant Industry.)

Bulletins of the Bureau of Plant Industry. Pp. 4. (Miscellaneous, Bureau of Plant Industry.)

Publications for Sale, Revised to June 15, 1908. Pp. 99. (Circular 3, Revised, Division of Publications.)

Monthly List of Publications, July, 1908. Pp. 4. (Doc. 612, Division of Publications.)



- Publications of the Office of Public Roads. Pp. 5. (Circular 88, Second Revision, Office of Public Roads.)  
 The Twenty-eight Hour Law. Pp. 5. (Circular 7, Office of the Solicitor.)  
 Crop Reporter, Vol. 10, No. 8, August, 1908. Pp. 57-64. (Bureau of Statistics.)  
 The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

## REPRINTS.

- Circular 56, Bureau of Animal Industry. Facts concerning the History, Commerce and Manufacture of Butter.  
 Circular 114, Bureau of Animal Industry. Sanitary Milk Production.  
 Circular 5, Revised, Bureau of Entomology. The Carpet Beetle, or "Buffalo Moth."  
 Circular 20, Revised, Bureau of Entomology. The Woolly Aphis of the Apple.  
 Circular 69, Bureau of Entomology. Some Insects Affecting the Production of Red Clover Seed.  
 Circular 60, Office of Experiment Stations. The Teaching of Agriculture in the Rural Common Schools.  
 Circular 139, Forest Service. A Primer of Wood Preservation.  
 Circular 1, Bureau of Plant Industry. Self-boiled Lime-sulphur Mixture as a Promising Fungicide.

## FARMERS' BULLETINS.

## NEW.

- Silver Fox Farming. By Wilfred H. Osgood, Assistant, Biological Survey. Pp. 24, figs. 10. (Farmers' Bulletin 328.)

This bulletin describes the silver and silver-black fox, areas suitable for fox farming, breeding, preparation of the skin, etc., and contains information as to methods of fox farming, causes of failure, expenses, and profits.

- Experiment Station Work, XLVII. Compiled from the Publications of the Agricultural Experiment Stations. Pp. 32, figs. 4. (Farmers' Bulletin 329.)

CONTENTS: Low grade *v.* high-grade fertilizers—Improvement of sandy soils—Dry farming—Seed selection—Evergreens: Uses and culture—Nut growing in Maryland—"Hogging off" corn—Mineral matter in feeding stuffs—Preparation of miscible oils—An automatic cheese press—Cane sugar and beet sugar.

- Forage Crops for Hogs in Kansas and Oklahoma. By C. E. Quinn, Scientific Assistant, Farm Management Investigations, Bureau of Plant Industry. Pp. 24. (Farmers' Bulletin 331.)

This bulletin treats of the pasturing capacity of alfalfa, wheat, oats, rye, and a number of less important forage crops, the systems of feeding and pasturing hogs practiced in Kansas and Oklahoma, and contains a table showing suitable pasture crops for the different seasons with the number of hogs per acre.

## SEPARATES.

## NEW.

- Notable Depredations by Forest Insects. By A. D. Hopkins, in Charge of Forest Insect Investigations, Bureau of Entomology. Pp. 16. (Sep. 442, Yearbook, 1907.)  
 Does it Pay the Farmer to Protect Birds? By H. W. Henshaw, Administrative Assistant, Biological Survey. Pp. 14, pls. 4. (Sep. 443, Yearbook, 1907.)  
 Bacteria in Milk. By L. A. Rogers, Bacteriologist, Dairy Division, Bureau of Animal Industry. Pp. 18, figs. 6. (Sep. 444, Yearbook, 1907.)  
 Training Courses for Teachers of Agriculture. By Dick J. Crosby, Expert in Agricultural Education, Office of Experiment Stations. Pp. 14. (Sep. 445, Yearbook, 1907.)  
 The Art of Seed Selection and Breeding. By A. D. Shamel, Physiologist in Charge of Cotton Breeding and Tobacco Investigations, Bureau of Plant Industry. Pp. 16, pls. 5. (Sep. 446, Yearbook, 1907.)  
 The Value of Insect Parasitism to the American Farmer. By F. M. Webster, in Charge of Cereal and Forage Plant Insect Investigations, Bureau of Entomology. Pp. 20, figs. 30. (Sep. 447, Yearbook, 1907.)  
 Traffic on Chesapeake Bay and Tennessee River. By Frank Andrews, Assistant Chief, Division of Foreign Markets. Pp. 16. (Sep. 449, Yearbook, 1907.)  
 The Detail of the Enforcement of the Food and Drugs Act. By W. D. Bigelow, Chief, Division of Foods, Bureau of Chemistry. Pp. 8. (Sep. 451, Yearbook, 1907.)



- The Status of the American Lemon Industry. By G. Harold Powell, Pomologist, in Charge of Fruit Transportation and Storage Investigations, Bureau of Plant Industry. Pp. 18, pls. 5, figs. 2. (Sep. 453, Yearbook, 1907.)
- Food and Diet in the United States. By C. F. Langworthy, of the Office of Experiment Stations. Pp. 18. (Sep. 454, Yearbook, 1907.)
- Cropping Systems for Stock Farms. By W. J. Spillman, Agriculturist in Charge of Farm Management Investigations, Bureau of Plant Industry. Pp. 14. (Sep. 456, Yearbook, 1907.)
- Hygienic Water Supplies for Farms. By B. M. Bolton, Biochemical Division, Bureau of Animal Industry. Pp. 10, pl. 1, figs. 4. (Sep. 457, Yearbook, 1907.)
- The Use of Small Water Supplies for Irrigation. By Samuel Fortier, Chief of Irrigation Investigations, Office of Experiment Stations. Pp. 16, figs. 6. (Sep. 458, Yearbook, 1907.)
- Truck Farming in the Atlantic Sea Coast States. By L. C. Corbett, Horticulturist in Charge of Arlington Experimental Farm, Bureau of Plant Industry. Pp. 10, pls. 3. (Sep. 459, Yearbook, 1907.)
- The Codling Moth or Apple Worm. By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations, Bureau of Entomology. Pp. 16, pls. 4. (Sep. 460, Yearbook, 1907.)
- Dry-land Farming in the Great Plains Area. By E. C. Chilcott, Agriculturist, in Charge of Dry-land Agriculture Investigations. Pp. 18, figs. 2. (Sep. 461, Yearbook, 1907.)
- The Game Resources of Alaska. By Wilfred H. Osgood, Assistant Biologist, Biological Survey. Pp. 14, pls. 2, figs. 3. (Sep. 462, Yearbook, 1907.)
- Diseases of Ornamental Trees. By Haven Metcalf, Pathologist in Charge of the Laboratory of Forest Pathology, Bureau of Plant Industry. Pp. 12, pls. 3, fig. 1. (Sep. 463, Yearbook, 1907.)
- A Directory for Farmers. (Corrected to April 1, 1908.) Pp. 25. (Sep. 464, Yearbook, 1907.)
- Agricultural Statistics, 1907. Pp. 155. (Sep. 465, Yearbook, 1907.)
- Plant Diseases in 1907. By W. A. Orton, Plant Pathologist, and Adeline Ames, Scientific Assistant, Bureau of Plant Industry. Pp. 13. (Sep. 467, Yearbook, 1907.)
- Game Protection in 1907. By Henry Oldys, Assistant, Biological Survey. Pp. 8. (Sep. 469, Yearbook, 1907.)

#### REPRINTS.

- Separate 215, Yearbook, 1900. Commercial Pear Culture.
- Separate 322, Yearbook, 1903. Some New Facts about the Migration of Birds.
- Separate 362, Yearbook, 1904. Boys' Agricultural Clubs.
- Separate 377, Yearbook, 1905. Diversified Farming in the Cotton Belt.
- Separate 382, Yearbook, 1905. The Use of Illustrative Material in Teaching Agriculture in Rural Schools.
- Separate 423, Yearbook, 1906. Corn-breeding Work at the Experiment Stations.
- Separate from Bulletin 61, Bureau of Entomology. State and Territorial Laws Relative to Foul Brood.
- Separate 6. Bulletin 158, Office of Experiment Stations. Irrigation in Southern Texas.

#### PUBLICATIONS OF THE WEATHER BUREAU.

- Monthly Weather Review, Vol. XXXVI, No. 5, May, 1908. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 35, charts 7, figs. 9. (W. B. No. 392.) Price, 20 cents; \$2.50 per year.
- National Weekly Weather Bulletin, reporting temperature and rainfall with a summary of weather conditions throughout the United States. Issued each Tuesday in August. (Nos. 20, 21, 22, 23.)

GEO. WM. HILL,  
*Editor and Chief.*

Approved :  
JAMES WILSON,  
*Secretary of Agriculture.*



No. 615.

# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *September 30, 1908.*

### MONTHLY LIST OF PUBLICATIONS.

[SEPTEMBER, 1908.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted.

**THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.**

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture..

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

#### REPORT.

##### NEW.

Progress of the Beet-sugar Industry in the United States in 1907. Pp. 88. (Report 86, Office of the Secretary.) Price 10 cents.

#### BULLETINS.

##### NEW.

Miscellaneous Papers. A Record of Results from Rearings and Dissections of Tachinidæ. By Charles H. T. Townsend, Expert in Charge of Dipterous Parasites, Gipsy Moth Laboratory. Pp. 95-118, figs. 6. (Bulletin 12, Part VI, Technical Series, Bureau of Entomology.) Price 5 cents.

Meat Extracts and Similar Preparations, Including Studies of the Methods of Analysis Employed. By W. D. Bigelow, Chief, Division of Foods, and F. C. Cook, Physiological Chemist. Pp. 56. (Bulletin 114, Bureau of Chemistry.) Price 10 cents.

Commercial Sicilian Sumac. By F. P. Veitch, Chief of the Leather and Paper Laboratory. Including Notes on the Microscopical Examination of Sicilian Sumac and Its Adulterants. By B. J. Howard, Chief of the Microchemical Laboratory. Pp. 32, pls. 3. (Bulletin 117, Bureau of Chemistry.) Price 10 cents.

Unfermented Apple Juice. By H. C. Gore, Assistant Chemist, Division of Foods. Pp. 23, figs. 4. (Bulletin 118, Bureau of Chemistry.) Price 5 cents.

Experiment Station Record, Vol. XIX, No. 12, August, 1908. E. W. Allen, Ph. D., Editor. Pp. ix, 1101-1200. (No single copies of Vol. XIX sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume XIX, at \$1.50 per volume, payable in advance.

Accessions to the Department Library. January-March, 1908. Pp. 72. (Bulletin 67, Library.) Price 10 cents.

Accessions to the Department Library, April-June, 1908. Pp. 52. (Bulletin 68, Library.) Price 10 cents.

The Relation of Nicotine to the Quality of Tobacco. By Wightman W. Garner, Scientific Assistant, Tobacco Investigations. Pp. 1-16. (Bulletin 141, Part I, Bureau of Plant Industry.) Price 5 cents.



- The Granville Tobacco Wilt. By Erwin F. Smith, Pathologist in Charge of the Laboratory of Plant Pathology. Pp. 17-24. (Bulletin 141, Part II, Bureau of Plant Industry.) Price 5 cents.
- Dust Preventives. By Prevost Hubbard, Assistant Chemist, Office of Public Roads. Pp. 64, pls. 3. (Bulletin 34, Office of Public Roads.) Price 15 cents.

## REPRINTS.

- Bulletin 84, Part III, Bureau of Chemistry. Influence of Food Preservatives and Artificial Colors on Digestion and Health. Price 25 cents.
- Bulletin 104, Bureau of Chemistry. Food Legislation during the Year Ended June 30, 1906. Price 10 cents.
- Bulletin 196, Office of Experiment Stations. Proceedings of the Twenty-first Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at Lansing, Mich., May 28-30, 1907. Price 15 cents.

## CIRCULARS.

## NEW.

- Classified List of Available Publications of the Bureau of Animal Industry. Pp. 8. (Circular 134, Bureau of Animal Industry.)
- Regulations [Amendment] for the Certification of Associations of Breeders of Purebred Live Stock and Books of Record of Pedigrees. P. 1. (Amendment 3 to B. A. I. Order 136, Bureau of Animal Industry.)
- To Prevent the Spread of Splenetic Fever in Cattle. Amendment regarding Cattle for the Oklahoma State Fair. P. 1. (Amendment 1 to B. A. I. Order 151, Bureau of Animal Industry.)
- To Prevent the Spread of Splenetic Fever in Cattle. Amendment regarding the Return of Cattle of the Nonquarantined Area that are Exhibited at the Georgia State Fair at Atlanta, Ga., October 8 to 24, 1908. Pp. 2. (Amendment 2 to B. A. I. Order 151, Bureau of Animal Industry.)
- To Prevent the Spread of Scabies in Cattle. Pp. 2. (B. A. I. Order 152, Rule 2, Revision 2, Bureau of Animal Industry.)
- Directions for Destroying Pocket Gophers. By David E. Lantz, Assistant. Pp. 4, figs. 4. (Circular 52, revised, Bureau of Biological Survey.)
- The Alaska Game Law and Regulations of the Department of Agriculture, 1908. Pp. 8. (Circular 66, Bureau of Biological Survey.)
- The Imported Elm Leaf-beetle. (*Galerucella luteola* Mull.) By C. L. Marlatt, Entomologist and Assistant Chief of Bureau. Pp. 6, fig. 1. (Circular 8 revised, Bureau of Entomology.)
- The Strawberry Weevil. (*Anthonomus signatus* Say.) By F. H. Chittenden, In Charge of Truck Crop and Special Insect Investigations. Pp. 10, figs. 5. (Circular 21, revised, Bureau of Entomology.)
- The Squash-vine Borer. (*Melittia satyriniformis* Hbn.) By F. H. Chittenden, In Charge of Truck Crop and Special Insect Investigations. Pp. 6, figs. 2. (Circular 38, second revision, Bureau of Entomology.)
- The Joint-worm. (*Isosoma tritici* Fitch.) By F. M. Webster, In Charge of Cereal and Forage Plant Investigations. Pp. 7, figs. 6. (Circular 66, revised, Bureau of Entomology.)
- The Most Important Step in the Control of the Boll Weevil. By W. D. Hunter, In Charge of Southern Field Crop Insect and Tick Investigations. Pp. 8. (Circular 95, revised, Bureau of Entomology.)
- Federal Legislation, Regulations, and Rulings Affecting Agricultural Colleges and Experiment Stations. Pp. 21. (Circular 68, revised, Office of Experiment Stations.)
- Publications of the Office of Experiment Stations from Its Organization to June 30, 1908. Pp. 19. (Circular 70, revised, Office of Experiment Stations.)
- List of Publications Received by the Office of Experiment Stations during August, 1908. Pp. 8. (Doc. 1114, Office of Experiment Stations.)
- The Analysis of Turpentine by Fractional Distillation with Steam. By William C. Geer, Expert. Pp. 29, figs. 17. (Circular 152, Forest Service.)
- Native and Planted Timber of Iowa. By Hugh B. Baker, Forest Assistant. Pp. 24, fig. 1. (Circular 154, Forest Service.)
- Yellow Cedar (*Chamaecyparis nootkatensis* (Lamb.) Spach.). Pp. 4. (Silvical Leaflet 12, revised, Forest Service.)



- Foxtail Pine (*Pinus balfouriana* Murr.). Pp. 2. (Silvical Leaflet 26, Forest Service.)
- The Work of the San Antonio Experiment Farm in 1907. By Frank B. Headley, Scientific Assistant, and Stephen H. Hastings, Farm Superintendent, Western Agricultural Extension Investigations. Pp. 16. (Circular 13, Bureau of Plant Industry.)
- Change of Vegetation on the South Texas Prairies. By O. F. Cook, Bionomist in Charge of Bionomic Investigations of Tropical and Subtropical Plants. Pp. 7. (Circular 14, Bureau of Plant Industry.)
- Monthly List of Publications, August, 1908. Pp. 4. (Doc. 613, Division of Publications.)
- The Twenty-eight Hour Law. Pp. 4. (Circular 9, Office of the Solicitor.)
- Government Crop Reports: Their Value, Scope, and Preparation. Compiled and prepared by Chas. C. Clarke, Associate Statistician. Pp. 16. (Circular 17, Bureau of Statistics.)
- Crop Reporter, vol. 10, No. 9, September, 1908. Pp. 65-72. (Bureau of Statistics.)
- The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

- Circular 19, Office of the Secretary. Standards of Purity for Food Products.
- Circular 117, Bureau of Animal Industry. A City Milk and Cream Contest as a Practical Method of Improving the Milk Supply.
- Circular 103, Bureau of Animal Industry. Records of Dairy Cows: Their Value and Importance in Economic Milk Production.
- Circular 118, Bureau of Animal Industry. The Unsuspected but Dangerously Tuberculous Cow.
- Circular 15, Bureau of Chemistry. Results of Borax Experiment.
- Circular 80, Bureau of Entomology. The Melon Aphis.
- Circular 15, Division of Forestry. Summary of Mechanical Tests on Thirty-two Species of American Woods.
- Circular 21, fifth revision, Forest Service. Practical Assistance to Farmers, Lumbermen, and Other Owners of Forest Lands.
- Circular 36, Forest Service. The Forest Service: What It is and How It Deals with Forest Problems.
- Circular 37, Forest Service. Forest Planting in the Sand-Hill Region of Nebraska.
- Circular 46, Forest Service. Holding Force of Railroad Spikes in Wooden Ties.
- Circular 49, Forest Service. Timber Used in the Mines of the United States in 1905.
- Circular 55, Forest Service. How to Pack and Ship Young Forest Trees.
- Circular 73, Forest Service. Red Cedar (*Juniperus virginiana*).
- Circular 75, Forest Service. Hackberry (*Celtis occidentalis*).
- Circular 80, Forest Service. The Fractional Distillation of Coal-tar Creosote.
- Circular 83, revised, Forest Service. Russian Mulberry (*Morus alba tatarica*).
- Circular 89, Forest Service. Tamarack (*Larix laricina*).
- Circular 92, Forest Service. Green Ash (*Fraxinus lanceolata*).
- Circular 103, Forest Service. Seasoning of Telephone and Telegraph Poles.
- Circular 104, Forest Service. Brush and Tank Pole Treatments.
- Circular 112, Forest Service. The Analysis and Grading of Creosotes.
- Circular 114, Forest Service. Wood Distillation.
- Circular 117, Forest Service. The Preservative Treatment of Fence Posts.
- Circular 131, Forest Service. Practical Forestry on a Spruce Tract in Maine.
- Circular 132, Forest Service. The Seasoning and Preservative Treatment of Hemlock and Tamarack Cross-ties.
- Circular 141, Forest Service. Wood Paving in the United States.
- Circular 142, Forest Service. Tests of Vehicle and Implement Woods.
- Circular 144, Forest Service. The Relation of the Southern Appalachian Mountains to the Development of Water Power.

#### FARMERS' BULLETINS.

##### NEW.

- Cotton Wilt. By W. A. Orton, Pathologist, Bureau of Plant Industry. Pp. 24, figs. 11. (Farmers' Bulletin 333.)

This bulletin contains the history, distribution, and description of the wilt disease of cotton, the resistance of different varieties to wilt, the relation of root-knot to the disease, and methods for control, with suggestions for breeding cotton and distributing the seed.

- Game Laws for 1908. A Summary of the Provisions Relating to Seasons, Shipment, Sale, Limits, and Licenses. By T. S. Palmer and Henry Oldys, Assistants, Biological Survey. Pp. 55, figs. 4. (Farmers' Bulletin 336.)



## SEPARATES.

## NEW.

- Progress in Some of the Work of the Bureau of Plant Industry. By Beverly T. Galloway, Chief of the Bureau of Plant Industry. Pp. 139-148, pls. 5. (Sep. 441, Yearbook, 1907.)
- Dust Preventives. By Logan Waller Page, Director of the Office of Public Roads. Pp. 257-266, pls. 4. (Sep. 448, Yearbook, 1907.)
- Traffic on Chesapeake Bay and Tennessee River. By Frank Andrews, Assistant Chief, Division of Foreign Markets. Pp. 289-304. (Sep. 449, Yearbook, 1907.)
- Promising New Fruits. By William A. Taylor, Pomologist in Charge of Field Investigations, Bureau of Plant Industry. Pp. 305-320, pls. 8. (Sep. 450, Yearbook, 1907.)
- The Rabbit as a Farm and Orchard Pest. By D. E. Lantz, Assistant, Biological Survey. Pp. 329-342, pls. 2, fig. 1. (Sep. 452, Yearbook, 1907.)
- Cutting Timber on the National Forests and Providing for a Future Supply. By Raphael Zon, Chief, Office of Silvics, Forest Service, and E. H. Clapp, Chief, Office of Forest Management, Forest Service. Pp. 277-288, pls. 3. (Sep. 466, Yearbook, 1907.)
- Changes Taking Place in Chickens in Cold Storage. By Mary E. Pennington, Bacteriological Chemist, Bureau of Chemistry. Pp. 197-206, pls. 7. (Sep. 468, Yearbook, 1907.)
- The Weather Bureau and the Public Schools. By John R. Weeks, Local Forecaster, Weather Bureau, Binghamton, N. Y. Pp. 267-276, figs. 3. (Sep. 471, Yearbook, 1907.)

## REPRINTS.

- Separate 350, Yearbook, 1904. Practical Road Building in Madison County, Tennessee.
- Separate 354, Yearbook, 1904. Some Uses of the Grapevine and Its Fruit.

## PUBLICATIONS OF THE WEATHER BUREAU.

- Monthly Weather Review, Vol. XXXVI, No. 6, June, 1908. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 36, charts 6, figs. 4. (W. B. No. 393.) Price 20 cents; \$2.50 per year.
- Bulletin of the Mount Weather Observatory, vol. 1, parts 1, 2, and 3. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 1-206. (Weather Bureau.) Price 25 cents per number; \$1 per year.
- National Weekly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. Issued each Tuesday in September. (Nos. 24, 25, 26, 27, 28.)

GEO. WM. HILL,  
*Editor and Chief.*

Approved:  
JAMES WILSON,  
*Secretary of Agriculture.*



No. 616.

United States Department of Agriculture,  
DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *October 31, 1908.*

MONTHLY LIST OF PUBLICATIONS.  
[OCTOBER, 1908.]

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ADVANCE SHEETS, SOIL SURVEY.

(From Field Operations, Bureau of Soils, 1907.)

Soil Survey of Talladega County, Alabama. By Charles N. Mooney and Charles J. Mann. Pp. 40, fig. 1, map.

Soil Survey of Marion County, Indiana. By W. J. Geib and Frank C. Schroeder. Pp. 24, fig. 1, map.

Soil Survey of Henderson County, North Carolina. By W. Edward Hearn, assisted by G. M. MacNider of the North Carolina Department of Agriculture. Pp. 25, fig. 1, map.

Soil Survey of the North Platte Area, Nebraska. By E. L. Worthen and O. L. Eckman. Pp. 28, fig. 1, map.

Soil Survey of Lee County, South Carolina. By Frank Bennett, G. W. Tailby, jr., James L. Burgess, W. J. Latimer, and H. L. Westover. Pp. 27, fig. 1, map.

BULLETINS.

NEW.

A Biological Investigation of the Athabaska-Mackenzie Region. By Edward A. Preble, Assistant, Biological Survey. Prepared under the direction of Dr. C. Hart Merriam, Chief of Bureau of Biological Survey. Pp. 574, pls. 25, figs. 16. (North American Fauna 27, Bureau of Biological Survey.) Price 80 cents.

Official and Provisional Methods of Analysis, Association of Official Agricultural Chemists. As compiled by the Committee on Revision of Methods, November 1, 1906, and provisionally adopted by the Association; further revised and finally adopted October, 1907. Edited by Harvey W. Wiley, Secretary of the Association. Pp. 272, figs. 13. (Bulletin 107, revised, Bureau of Chemistry.) Price 20 cents.

Proceedings of the Twenty-fourth Annual Convention of the Association of Official Agricultural Chemists, Held at the Jamestown Exposition, Norfolk, Va., October 9–11, 1907. Edited by Harvey W. Wiley, Secretary of the Association. Pp. 143. (Bulletin 116, Bureau of Chemistry.) Price 20 cents.

Fumigation for the Citrus White Fly, as Adapted to Florida Conditions. By A. W. Morrill, Special Field Agent. Pp. 73, pls. 7, figs. 11. (Bulletin 76, Bureau of Entomology.) Price 15 cents.

Cost of Pumping from Wells for the Irrigation of Rice in Louisiana and Arkansas. By W. B. Gregory, Professor of Experimental Engineering, Tulane University of Louisiana. Pp. 39, figs. 2. (Bulletin 201, Office of Experiment Stations.) Price 10 cents.

Experiment Station Record, Vol. XIX, Name Index. E. W. Allen, Ph. D., Editor. Pp. xx, 1201-1223. (No single copies of Vol. XIX sold.)

Experiment Station Record, Vol. XX, No. 1, September, 1908. E. W. Allen, Ph. D., Editor. Pp. ix, 1-100. (No single copies of Vol. XX sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume XIX, at \$1.50 per volume, payable in advance.

Dry-land Agriculture. Papers read at the second annual meeting of the Cooperative Experiment Association of the Great Plains Area, held at Manhattan, Kans., June 26-27, 1907. Pp. 90, figs. 4. (Bulletin 130, Bureau of Plant Industry.) Price 10 cents.

Peach, Apricot, and Prune Kernels as By-products of the Fruit Industry of the United States. By Frank Rabak, Expert, Drug-Plant Investigations. Pp. 34. (Bulletin 133, Bureau of Plant Industry.) Price 5 cents.

Methods and Causes of Evolution. By O. F. Cook, Bionomist, Bureau of Plant Industry. Pp. 35. (Bulletin 136, Bureau of Plant Industry.) Price 10 cents.

Wheat Crops of the United States, 1866-1906. Prepared under the direction of Charles C. Clark, Associate Statistician. Pp. 39. (Bulletin 57, revised, Bureau of Statistics.) Price 10 cents.

#### REPRINTS.

Bulletin 104, Bureau of Animal Industry. Medical Milk Commissions and the Production of certified milk in the United States. Price 10 cents.

Bulletin 57, Bureau of Forestry. Federal and State Forest Laws. Price 15 cents.

Bulletin 53, Bureau of Plant Industry. The Date Palm and Its Utilization in the Southwestern States. Price 20 cents.

Bulletin 34, Bureau of Soils. Reclamation of Alkali Soils. Price 10 cents.

#### CIRCULARS.

##### NEW.

The Preservation of our Native Types of Horses. By George M. Rommel, Animal Husbandman, Bureau of Animal Industry. Pp. 59, pl. 1, figs. 19. (Circular 137, Bureau of Animal Industry.)

Classified List of Available Publications of the Bureau of Animal Industry. Pp. 8. (B. A. I. Misc.)

Directions for Destroying Pocket Gophers. By David E. Lantz, Assistant, Biological Survey. Pp. 4. (Circular 52, revised, Bureau of Biological Survey.)

Organization of the Bureau of Chemistry. (Revised to October 1, 1908.) Pp. 27. (Circular 14, revised, Bureau of Chemistry.)

Officials Charged with the Enforcement of Food Laws in the United States and Canada. (Revised to July 1, 1908.) Pp. 36. (Circular 16, revised, Bureau of Chemistry.)

The Rose Slugs. By F. H. Chittenden, In Charge of Truck Crop and Special Insect Investigations. Pp. 12, figs. 5. (Circular 105, Bureau of Entomology.)

Form of Organization for Movable Schools of Agriculture. By John Hamilton, Farmers' Institute Specialist. Pp. 8. (Circular 79, Office of Experiment Stations.)

List of Publications of the Office of Experiment Stations on Agricultural Education. Pp. 13. (Document 1094, Office of Experiment Stations.)

Institutions in the United States Giving Instruction in Agriculture. Pp. 10. (Document 1110, Office of Experiment Stations.)

List of Station Publications Received by the Office of Experiment Stations during September, 1908. Pp. 4. (Document 1121, Office of Experiment Stations.)

A Primer of Conservation. (Includes Excerpts from Addresses Given at the White House Conference of Governors.) By Treadwell Cleveland, jr., Pp. 24. (Circular 157, Forest Service.)



- The Fertilizing Value of Hairy Vetch for Connecticut Tobacco Fields. By T. R. Robinson, Assistant Physiologist, Soil Bacteriology Investigations. Pp. 5. (Circular 15, Bureau of Plant Industry.)
- Publications for Free Distribution. (Revised to September 1, 1908.) Pp. 76. (Circular 2, Division of Publications.)
- Farmers' Bulletin Subject Index. (Revised to include Bulletin 331.) Pp. 33. (Circular 4, Division of Publications.)
- Monthly List of Publications, September, 1908. Pp. 4. (Doc. 615, Division of Publications.)
- Crop Reporter, Vol. 10, No. 10, October, 1908. Pp. 73-80. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

- Circular 122, Bureau of Animal Industry. Epizootic Cerebro-spinal Meningitis of Horses.
- Circular 131, Bureau of Animal Industry. Designs for Dairy Buildings.
- Circular 35, Bureau of Chemistry. Report on Colors.
- Circular 38, Bureau of Chemistry. Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1907.
- Circular 75, revised, Bureau of Entomology. Requirements to be Complied with by Nurserymen or Others Who Make Interstate Shipments of Nursery Stock.
- Circular 95, revised, Bureau of Entomology. The Most Important Step in the Control of the Boll Weevil.
- Doc. 893, Office of Experiment Stations. Courses in Agriculture, Horticulture, and Allied Subjects.
- Circular 12, Division of Forestry. Southern Pine—Mechanical and Physical Properties.
- Circular 36, Forest Service. The Forest Service, What It is and How It Deals with Forest Problems.
- Circular 59, revised, Forest Service. Eucalypts.
- Circular 130, Forest Service. Forestry in the Public Schools.
- Circular 146, Forest Service. Experiments with Railway Cross-ties.
- Circular 151, Forest Service. The Preservative Treatment of Loblolly Pine Cross-arms.
- Circular 1, Bureau of Plant Industry. Self-boiled Lime-sulphur Mixture as a Promising Fungicide.
- Circular 6, Bureau of Plant Industry. The Cultivation and Handling of Goldenseal.
- Circular 10, Bureau of Plant Industry. Notes on Dry-farming.
- Circular 3, Division of Publications. Publications for Sale.
- Circular 18, Bureau of Soils. The Wire-basket Method for Determining the Manurial Requirements of Soils.

#### FARMERS' BULLETINS.

##### NEW.

- Nuts and Their Uses as Food. By M. E. Jaffa, Professor of Nutrition, University of California. Prepared under the supervision of the Office of Experiment Stations. Pp. 28, fig. 1. (Farmers' Bulletin 332.)

This bulletin is a revision and extension of an article in the Yearbook of this Department for 1906, and embraces a description of several varieties of nuts, with statements as to their flavor, composition, digestibility, value as food, etc., with remarks on nut products, and suggestions for handling and marketing.

- Experiment Station Work, XLVIII. Compiled from the Publications of the Agricultural Experiment Stations. Pp. 32, figs. 2. (Farmers' Bulletin 334.)

Contents: Plant breeding on the farm—Sorghum for silage—Dry rot of corn—Starch from sweet potatoes—Profits from tomato growing—The keeping of apples—Weed seeds in manure—Weed seeds in feeding stuffs—Forage crops for pigs—Market classes and grades of horses and mules—Profitable and unprofitable cows—Blackhead in turkeys—Extraction of beeswax—An improved hog cot.

- Harmful and Beneficial Mammals of the Arid Interior, with Special Reference to the Carson and Humboldt Valleys, Nevada. By Vernon Bailey, In Charge of Geographic Distribution, Biological Survey. Pp. 31, figs. 9. (Farmers' Bulletin 335.)

This bulletin contains a description of the appearance and habits of the mammals native to this part of western Nevada, with suggestions as to methods for the destruction of the harmful species, and the protection of those that are beneficial to the farmers of this region.

Cropping Systems for New England Dairy Farms. By L. G. Dodge, Scientific Assistant, Farm Management Investigations, Bureau of Plant Industry. Pp. 24, figs. 2. (Farmers' Bulletin 337.)

This bulletin gives the results of three years' study of the cropping systems on a number of successful dairy farms in northern and southern New England, and points out some mistakes and difficulties of dairy farmers in that region.

Macadam Roads. By Austin B. Fletcher, Special Agent, Office of Public Roads. Pp. 39, figs. 10. (Farmers' Bulletin 338.)

This bulletin is a revision of Bulletin 29 of the Office of Public Roads, and contains detailed information in regard to the construction, maintenance and cost of Macadam roads, the kind and quality of stone, tools and machinery, labor and teams, etc., with an appendix containing excerpts from specifications used in the construction of State-aid roads in Massachusetts.

#### SEPARATES.

##### NEW.

The Use of the Microscope in Food Adulteration. By B. J. Howard, Chief, Microchemical Laboratory, Bureau of Chemistry. Pp. 6, pls. 4. (Sep. 455, Yearbook, 1907.)

Progress in Forestry in 1907. By Q. R. Craft, Forest Service. And Directory of Forest Officers, Associations, and Schools. Pp. 19, pls. 2. (Sep. 470, Yearbook, 1907.)

The Principal Injurious Insects of the Year 1907. Prepared in the Bureau of Entomology. Pp. 12. (Sep. 472, Yearbook, 1907.)

##### REPRINTS.

Separate 225, Yearbook, 1901. The Relation of Nutrition to the Health of Plants.  
 Separate 285, Yearbook, 1902. Progress in Secondary Education in Agriculture.  
 Separate 287, Yearbook, 1902. Improvement of Corn by Seed Selection.  
 Separate 296, Yearbook, 1902. Use of Mineral Oil in Road Improvement.  
 Separate 376, Yearbook, 1905. How to Grow Young Trees for Forest Planting.

#### PUBLICATIONS OF THE WEATHER BUREAU.

Monthly Weather Review, Vol. XXXVI, No. 7, July, 1908. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 34, charts 6, figs. 10. (W. B. No. 394.) Price 20 cents; \$2.50 per year.

GEO. WM. HILL,  
*Editor and Chief.*

Approved:  
 JAMES WILSON,  
*Secretary of Agriculture.*



1 P96M

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No. 620.

# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., November 30, 1908.

### MONTHLY LIST OF PUBLICATIONS.

[NOVEMBER, 1908.]

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The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

#### ADVANCE SHEETS, SOIL SURVEY.

(From Field Operations, Bureau of Soils, 1907.)

- Soil Survey of the Redding Area, California. By Macy H. Lapham and L. C. Holmes. Pp. 31, fig. 1, map.
- Soil Survey of Prentiss County, Mississippi. By W. J. Geib and C. W. Mann. Pp. 25, fig. 1, map.
- Soil Survey of Jasper County, Mississippi. By E. L. Worthen and H. Jennings. Pp. 36, fig. 1, map.
- Soil Survey of Montgomery County, Virginia. By R. A. Winston and Ora Lee, jr. Pp. 37, fig. 1, map.

#### BULLETINS.

##### NEW.

- Proteolytic Changes in the Ripening of Camembert Cheese. By Arthur W. Dox, Chemist in Cheese Investigations, Dairy Division. Pp. 24. (Bulletin 109, Bureau of Animal Industry.) Price 57 cents.
- A Preliminary Study of the Effects of Cold Storage on Eggs, Quail, and Chickens. By H. W. Wiley, Chief, Bureau of Chemistry, with the Collaboration of M. E. Pennington, G. W. Stiles, jr., B. J. Howard, and F. C. Cook. Pp. 117, pls. 13. (Bulletin 115, Bureau of Chemistry.) Price 40 cents.
- Experiment Station Record, Vol. XIX, Subject Index. E. W. Allen, Ph. D., Editor. Pp. 1225-1316. Price 15 cents.
- Experiment Station Record, Vol. XX, No. 2, October, 1908. E. W. Allen, Ph. D., Editor. Pp. ix, 101-200. (No single copies of Vol. XX sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume XIX, at \$1.50 per volume, payable in advance.

- Accessions to the Department Library, July-September, 1908. Pp. 51. (Bulletin 69, Library.) Price 10 cents.  
Exports of Farm and Forest Products, 1905-1907, by Countries to Which Consigned. Pp. 78. (Bulletin 71, Bureau of Statistics.) Price 10 cents.

## REPRINTS.

- Bulletin 28, Division of Forestry. A Short Account of the Big Trees of California. Price 15 cents.  
Bulletin 55, Bureau of Forestry. Forest Conditions of Northern New Hampshire. Price 25 cents.  
Bulletin 23, Bureau of Soils. Investigations in Soil Fertility. Price 5 cents.  
Bulletin 24, Bureau of Soils. The Centrifugal Method of Mechanical Soil Analysis. Price 10 cents.  
Bulletin 35, Bureau of Soils. Alkali Soils of the United States. Price 25 cents.  
Bulletin 44, Bureau of Soils. Reclamation of Alkali Soils at Billings, Montana. Price 10 cents.

## CIRCULARS.

## NEW.

- Directions for the Use of Blackleg Vaccine. Pp. 8, figs. 3. (Circular 23, third revision, Bureau of Animal Industry.)  
Officials, Organizations, and Educational Institutions Connected with the Dairy Interests (1908). Pp. 31. (Circular 135, Bureau of Animal Industry.)  
Foot-and-Mouth Disease. By D. E. Salmon and Theobald Smith. Pp. 8. (Circular 141, Bureau of Animal Industry.)  
Withdrawal of Certification. P. 1. (Amendment 4 to B. A. I. Order 136.)  
Labeling Renovated Butter. Pp. 2. (Amendment 1 to B. A. I. Order 147.)  
To Prevent the Spread of Foot-and-Mouth Disease in Cattle, Sheep, Swine, and Goats. Pp. 2. (Rule 6, B. A. I. Order 155.)  
To Prevent the Spread of Foot-and-Mouth Disease in Cattle, Sheep, Other Ruminants, and Swine. Pp. 2. (Rule 6, Revision 1, B. A. I. Order 156.)  
*Same*, Amendment 1 to Rule 6, Revision 1, B. A. I. Order 156.  
*Same*, Amendment 2, to Rule 6, Revision 1, B. A. I. Order 156.  
*Same*, Amendment 3 to Rule 6, Revision 1, B. A. I. Order 156.  
List of Publications of the Biological Survey, Department of Agriculture. Pp. 8. (Circular 60, second revision, Bureau of Biological Survey.)  
A New Basis for Barley Valuation and Improvement. By Albert Mann, Expert in Charge of Special Barley Investigations. Pp. 8, figs. 3. (Circular 16, Bureau of Plant Industry.)  
Index to Papers Relating to Plant Industry Subjects in the Yearbooks of the United States Department of Agriculture. Prepared by J. E. Rockwell, Editor, Bureau of Plant Industry. Pp. 55. (Circular 17, Bureau of Plant Industry.)  
Reappearance of a Primitive Character in Cotton Hybrids. By O. F. Cook, Bionomist, Bureau of Plant Industry. Pp. 11. (Circular 18, Bureau of Plant Industry.)  
Food and Drugs Index. Pp. 14. (Circular 5, revised, Division of Publications.)  
Monthly List of Publications, October, 1908. Pp. 4. (Doc. 616, Division of Publications.)  
Crop Reporter. Vol. 10, No. 11, November, 1908. Pp. 81-88. (Bureau of Statistics.)  
The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.



## REPRINTS.

- Circular 67, Bureau of Animal Industry. Abortion or Slinking the Calf.  
 Circular 70, Bureau of Animal Industry. Tuberculosis of Cattle.  
 Circular 71, Bureau of Animal Industry. Anthrax in Cattle, Horses, and Men.  
 Circular 78, Bureau of Animal Industry. Glanders and Farcy.  
 Circular 94, Bureau of Animal Industry. Foot-rot of Sheep.  
 Circular 96, Bureau of Animal Industry. Actinomycosis, or Lumpy Jaw.  
 Circular 103, Bureau of Animal Industry. Records of Dairy Cows: Their Value and Importance in Economic Milk Production.  
 Circular 114, Bureau of Animal Industry. Sanitary Milk Production.  
 Circular 118, Bureau of Animal Industry. The Unsuspected but Dangerously Tuberculous Cow.  
 Circular 127, Bureau of Animal Industry. Tubercle Bacilli in Butter.  
 Circular 128, Bureau of Animal Industry. White Diarrhea of Chicks.  
 Order 150, Bureau of Animal Industry. Regulations Concerning the Meat Inspection of the United States Department of Agriculture.  
 Food Inspection Decisions 40-43, Bureau of Chemistry.  
 Food Inspection Decisions, 60-64, Bureau of Chemistry.  
 Circular 54, Division of Entomology. The Peach-Tree Borer.  
 Circular 71, revised, Bureau of Entomology. House Flies.  
 Circular 83, Bureau of Entomology. The Locust Borer and Methods for Its Control.  
 Circular 98, Bureau of Entomology. The Apple-Tree Tent Caterpillar.  
 Circular 23, fourth revision, Forest Service. Suggestions to Prospective Forest Students.  
 Circular 25, Bureau of Forestry. Forestry and the Lumber Supply.  
 Circular 28, Bureau of Forestry. Practical Assistance to Users of Forest Products.  
 Circular 139, Forest Service. A Primer of Wood Preservation.  
 Circular 141, Forest Service. Wood Paving in the United States.  
 Circular 12, Bureau of Plant Industry. Dry-Land Grains.  
 Circular 13, Bureau of Plant Industry. The Work of the San Antonio Experiment Farm in 1907.

## FARMERS' BULLETIN.

## REVISED.

- The Angora Goat. By George Fayette Thompson, revised by Edward L. Shaw, Assistant in Animal Husbandry in Charge of Sheep and Goat Investigations, Bureau of Animal Industry. Pp. 48, figs. 8. (Farmers' Bulletin 137.)

## SEPARATES.

## NEW.

- Agriculture in Guam. Pp. 405-414. (Repr. An. Rpt. O. E. S., 1907.)  
 The Farmers' Institutes in the United States, 1907. By John Hamilton, Farmers' Institute Specialist, Office of Experiment Stations. Pp. 307-354. (O. E. S. Doc. 1133, Repr., An. Rpt. O. E. S., 1907.)  
 Report on the Separation of Meat Proteids. By F. C. Cook, Associate Referee. Pp. 44-51. (Repr. Bulletin 116, Bureau of Chemistry.)

## REPRINTS.

- Separate No. 280, Yearbook 1902. The Cost of Food as Related to Its Nutritive Value.  
 Separate No. 290, Yearbook 1902. Fertilizers for Special Crops.  
 Separate No. 452, Yearbook 1907. The Rabbit as a Farm and Orchard Pest.

## PUBLICATIONS OF THE WEATHER BUREAU.

Monthly Weather Review, Vol. XXXVI, No. 8, August, 1908. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 40, charts 9, figs. 4. (W. B. 396.) Price 20 cents; \$2.50 per year.

Monthly Weather Review, Vol. XXXVI, No. 9, September, 1908. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 50, charts 7, figs. 14. (W. B. 398.) Price 20 cents; \$2.50 per year.

National Monthly Weather Bulletin for October, 1908, reporting temperature and rainfall with a summary of weather conditions by sections throughout the United States. No. 29.

GEO. WM. HILL,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*

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WASHINGTON, D. C., *December 31, 1908.*

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[DECEMBER, 1908.]

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**REPORTS.**

**NEW.**

Report of the Secretary of Agriculture. 1908. Pp. 197. Price 20 cents; postage 7 cents.

Annual Report of the Office of Experiment Stations for the year ended June 30, 1907. Pp. 414, figs. 40. Price 60 cents; postage 15 cents.

**BULLETINS.**

**NEW.**

Feeding for Meat Production. By Henry Prentiss Armsby, Expert in Animal Nutrition, Bureau of Animal Industry. Pp. 89, fig. 1. (Bulletin 108, Bureau of Animal Industry.) Price 10 cents; postage 4 cents.

Influence of Food Preservatives and Artificial Colors on Digestion and Health. V. Formaldehyde. By H. W. Wiley, with the collaboration of W. D. Bigelow, F. C. Weber and others. Pp. vi, 1295-1500, figs. 4. (Bulletin 84, Part V, Bureau of Chemistry.) Price 25 cents; postage 8 cents.

The Relation of the Etiology (Cause) of Bee Diseases to the Treatment. By G. F. White, Expert in Bacteriology. Pp. 33-42. (Bulletin 75, Part IV, Bureau of Entomology.) Price 5 cents; postage 1 cent.

Digestibility of Starch of Different Sorts as Affected by Cooking. By Edna D. Day, Assistant Professor of Home Economics, University of Missouri. Pp. 42, figs. 6. (Bulletin 202, Office of Experiment Stations.) Price 10 cents; postage 2 cents.

Distribution of Water in the Soil in Furrow Irrigation. By R. H. Loughridge, of California University, under direction of Samuel Fortier, Chief of Irrigation Investigations. Pp. 63, figs. 19. (Bulletin 203, Office of Experiment Stations.) Price 10 cents; postage 3 cents.

Experiment Station Record, Vol. XX, No. 3, November, 1908. E. W. Allen, Ph. D., Editor. Pp. viii, 210-300. (No single copies of Vol. XX sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume XIX, at \$1.50 per volume; postage 50 cents, payable in advance.

Seeds and Plants Imported during the Period from July, 1906, to December 31, 1907; Inventory No. 13; Nos. 19058 to 21730. Pp. 192. (Bulletin 132, Bureau of Plant Industry.) Price 20 cents; postage 7 cents.



- Orchard Fruits in the Piedmont and Blue Ridge Regions of Virginia and the South Atlantic States. By H. P. Gould, Pomologist in Charge of Fruit District Investigations. Pp. 102, pls. 5. (Bulletin 135, Bureau of Plant Industry.) Price 20 cents; postage 5 cents.
- The Production of Cigar Wrapper Tobacco under Shade in the Connecticut Valley. By J. B. Stewart, Expert, Tobacco Investigations. Pp. 31, pls. 5. (Bulletin 138, Bureau of Plant Industry.) Price 15 cents; postage 2 cents.
- Road Materials of Southern and Eastern Maine. By Henry Leighton and Edson S. Bastin, U. S. Geological Survey, with the aid of the Maine State Survey Commission, for the Office of Public Roads. Pp. 56, pls. 4. (Bulletin 33, Office of Public Roads.) Price 20 cents; postage 3 cents.
- The Mineral Composition of Soil Particles. By G. H. Failyer, J. G. Smith, and H. R. Wade. Pp. 36. (Bulletin 54, Bureau of Soils.) Price 20 cents; postage 2 cents.

#### REPRINTS.

- Bulletin 58, Bureau of Animal Industry. The Fat Testing of Cream by the Babcock Method. Price 5 cents; postage 2 cents.
- Bulletin 92, Bureau of Animal Industry. The Milking Machine as a Factor in Dairying. I.—Practical Studies of a Milking Machine. II.—Bacteriological Studies of a Milking Machine. Price 15 cents; postage 3 cents.
- Bulletin 113, Bureau of Chemistry. Injury to Vegetation and Animal Life by Smelter Wastes. Price 10 cents; postage 3 cents.
- Bulletin 114, Bureau of Chemistry. Meat Extracts and Similar Preparations, including Studies of the Methods of Analysis Employed. Price 10 cents; postage 3 cents.
- Bulletin 69, Bureau of Entomology. The Chinch Bug. Price 15 cents; postage 4 cents.
- Bulletin 35, Office of Experiment Stations. Food and Nutrition Investigations in New Jersey in 1895 and 1896. Price 5 cents; postage 2 cents.
- Bulletin 98, Office of Experiment Stations. The Effect of Severe and Prolonged Muscular Work on Food Consumption, Digestion, and Metabolism. Price 5 cents; postage 3 cents.
- Separate 9 from Bulletin 158, Office of Experiment Stations. Report of Drainage Investigations, 1904. Price 10 cents; postage 4 cents.

#### CIRCULARS.

(Price 5 cents; postage 1 cent.)

#### NEW.

- The Adulteration and Misbranding of Alfalfa, Red Clover, and Grass Seeds. Pp. 6. (Circular 26, Office of the Secretary.)
- Tests of Bruschettini's Hog Cholera Vaccine and Bruschettini's Hog Cholera and Swine Plague Serum. Pp. 2. (Circular 27, Office of the Secretary.)
- The Labeling of Whiskey Compounds. Pp. 2. (Food Inspection Decision 98, Office of the Secretary.)
- Change in Form of Guarantee Legend. Pp. 2. (Food Inspection Decision 99, Office of the Secretary.)
- Bleached Flour. P. 1. (Food Inspection Decision 100, Office of the Secretary.)
- Benzoate of Soda. P. 1. (Food Inspection Decision 101, Office of the Secretary.)
- Entry of Vegetables Greened with Copper Salts. P. 1. (Food Inspection Decision 102, Office of the Secretary.)
- Paraffining Butter Tubs. By L. A. Rogers, Bacteriological Chemist, Dairy Division. Pp. 6, fig. 1. (Circular 130, Bureau of Animal Industry.)
- The Decision of the Supreme Court of the United States on the Sale of Imported Game. Pp. 12. (Circular 67, Bureau of Biological Survey.)
- Paper-making Materials and Their Conservation. By F. P. Veitch, Chief, Leather and Paper Laboratory. Pp. 20. (Circular 41, Bureau of Chemistry.)
- General Results of the Investigations Showing the Effect of Formaldehyde upon Digestion and Health. Pp. 16. (Circular 42, Bureau of Chemistry.)
- The Card Index of Experiment Station Literature. Pp. 2. (Circular 47, revised, Office of Experiment Stations.)
- State Directors of Farmers' Institutes and Farmers' Institute Lecturers of the United States. By John Hamilton, Farmers' Institute Specialist. Pp. 32. (Circular 51, revised, Office of Experiment Stations.)
- Report of Committee on Station Organization and Policy. Pp. 10. (Circular 82, Office of Experiment Stations.)



Preliminary Report on Grazing Experiments in a Coyote-proof Pasture. By James T. Jardine, Special Agent, Forest Service, and Frederick V. Coville, Botanist, Bureau of Plant Industry. Pp. 32, figs 2. (Circular 156, Forest Service.)

The Revegetation of Overgrazed Range Areas. Preliminary Report. By Arthur W. Sampson, Expert in Plant Ecology, Forest Service, and Frederick V. Coville, Botanist, Bureau of Plant Industry. Pp. 21. (Circular 158, Forest Service.)

The Decay of Florida Oranges while in Transit and on the Market. By Lloyd S. Tenny, Pomologist, assisted by G. W. Hosford, Assistant Pomologist, and H. M. White, Scientific Assistant. Pp. 8, figs. 2. (Circular 19, Bureau of Plant Industry.)

An Electrical Resistance Method for the Rapid Determination of the Moisture Content of Grain. By Lyman J. Briggs, Physicist. Pp. 8, figs. 3. (Circular 20, Bureau of Plant Industry.)

Farmers' Cooperative Demonstration Work in Its Relation to Rural Improvement. By S. A. Knapp, Special Agent. Pp. 20. (Circular 21, Bureau of Plant Industry.)

Monthly List of Publications, November, 1908. Pp. 4. (Doc. 620, Division of Publications.)

The Twenty-eight Hour Law. Pp. 4. (Circular 11, Office of the Solicitor.)

Crop Reporter, Vol. 10, No. 12, December, 1908. Pp. 89-96. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents will furnish it at 75 cents per volume (12 numbers), including postage, and payable in advance.

Supplement to Crop Reporter, Vol. 10, No. 12, December, 1908. Pp. 97-104. (Bureau of Statistics.)

#### FARMERS' BULLETIN.

(Price 5 cents; postage 1 cent.)

#### NEW.

The Sugar Beet: Culture, Seed Development, Manufacture, and Statistics. Pp. 47, figs. 18. (Farmers' Bulletin 52, revised.)

This bulletin has been revised to include the most recent practices in sugar beet culture, results of investigations as to diseases and insect pests, the development of the single germ seed, and statistics to date.

Alfalfa. By J. M. Westgate, Assistant Agrostologist, Bureau of Plant Industry. Pp. 48, figs. 14. (Farmers' Bulletin 339.)

This bulletin is issued to supersede Farmers' Bulletin 215 on the same subject, and is published with the double purpose of pointing out the conditions under which alfalfa may be successfully grown and to indicate where and under what conditions the attempt would probably result in failure.

Declaration of Governors for Conservation of Natural Resources. Pp. 7. (Farmers' Bulletin 340.)

The declaration of governors contained in this bulletin was adopted by the conference of governors of the States and Territories called by the President to consider the conservation of our natural resources, which met at the White House May 13, 14, and 15, 1908.

Some Common Disinfectants. By M. Dorset, Chief of the Biochemic Division, Bureau of Animal Industry. Pp. 12. (Farmers' Bulletin 345.)

A brief description of the value and methods of application of formaldehyde, carbolic acid, crude carbolic acid, cresol, chlorinated lime, and bichlorid of mercury.

#### SEPARATES.

(Price 5 cents; postage 1 cent.)

#### NEW.

(From Annual Report of the Office of Experiment Stations, 1907.)

Work and Expenditures of the Agricultural Experiment Stations for the Year ended June 30, 1907. By E. W. Allen. Pp. 51-191, figs. 10. (O. E. S., Doc. 1130.) Postage 5 cents.

Statistics of Land-grant Colleges and Agricultural Experiment Stations, 1907. Compiled by Miss M. T. Spethmann. Pp. 199-236. (O. E. S., Doc. 1131.)



- Progress in Agricultural Education, 1907. By Dick J. Crosby, Specialist in Agricultural Education, Office of Experiment Stations. Pp. 237-306, figs. 18. (O. E. S., Doc. 1132.)
- Losses of Irrigation Water and Their Prevention. By R. P. Teele, Expert in Irrigation Institutions, Office of Experiment Stations. Pp. 369-386. (O. E. S., Doc. 1135.)
- Progress in Drainage. By C. G. Elliott, Chief of Drainage Investigations. Pp. 387-404, figs. 8. (O. E. S., Doc. 1136.)

PUBLICATIONS OF THE WEATHER BUREAU.

- The Daily Normal Temperature and the Daily Normal Precipitation of the United States. By Frank Hagar Bigelow, Professor of Meteorology. Pp. 186. (Bulletin R., Weather Bureau.) Price \$1.75; postage 11 cents.
- Snow and Ice Bulletins for December 15, 22, and 29. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price 25 cents per season; postage 40 cents.

GEO. WM. HILL,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*

